ORDER NO. RD-7807-5012C

Service Manual

Radio Cassette

RS-4350LJ

Stereo Portable Cassette Recorder with FM/MW/LW/SW Radio

RS-4350 MECHANISM SERIES

Specifications (Catalog specifications for sales)

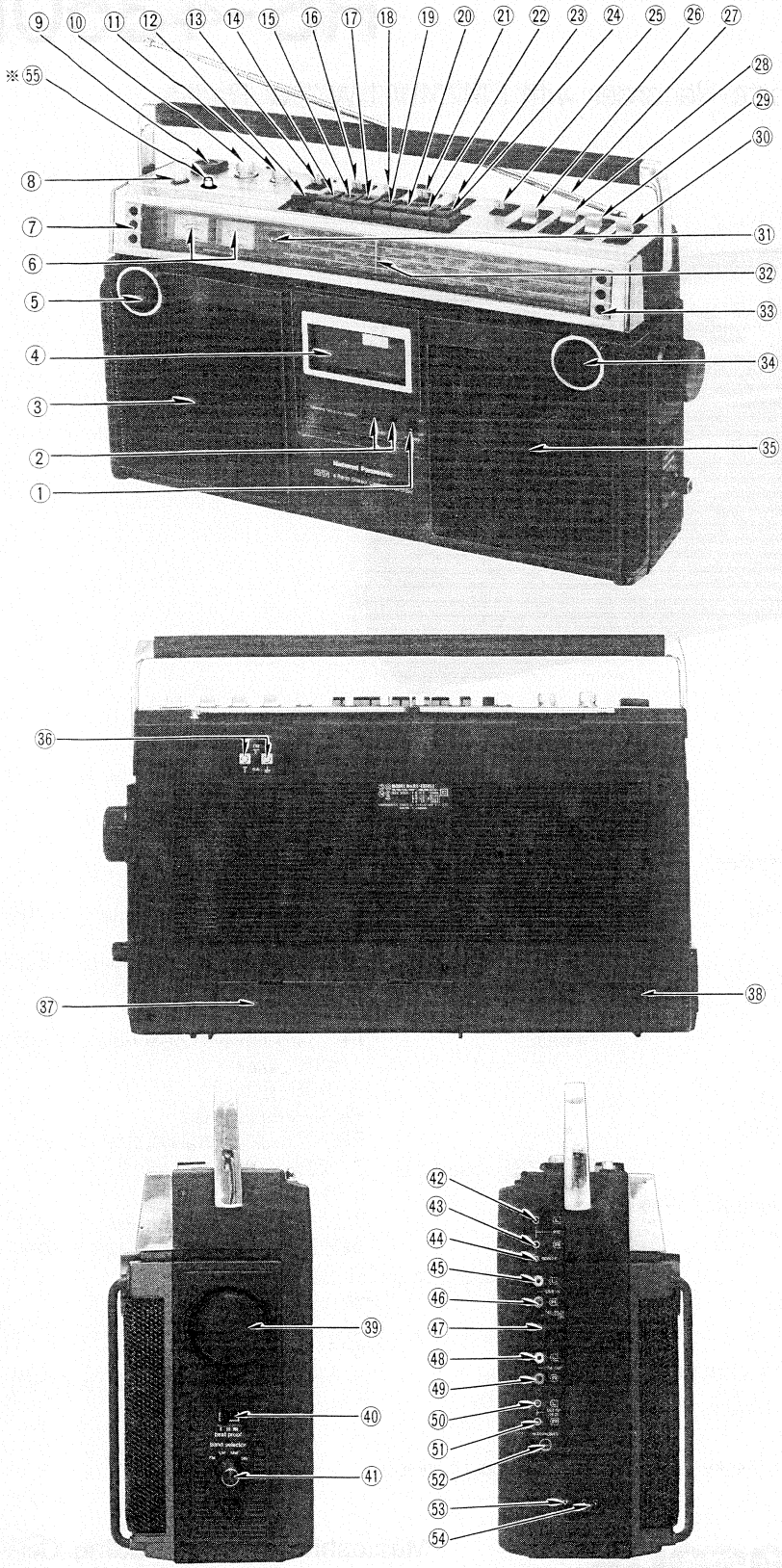
Power requirement:	AC; 110/125/220/240 V, 50 Hz Power consumption; 20 W Battery; 9 V (six- R20 size dry batteries) Car/boat battery; with optional car/boat adaptor RP-917
Power output:	11 W (5.5 W × 2) ··· RMS (max.)
Frequency range:	50 ~ 14,000 Hz (with CrO_2 tape) 50 ~ 12,000 Hz (with normal tape)
Recording system:	AC bias, AC erase
Operations:	Push button one-touch recording with Full Auto-Stop and memory play mechanism
Tape speed:	4.8 cm/s
Program time:	1 hour with C-60 cassette tape
Fast forward and rewind time:	Approx. 90 seconds with C-60 cassette tape
Track system:	4-track stereo recording and playback
Input:	MIC; sensitivity 0.25 mV/applicable microphone impedance 200 ~ 600 Ω (recommended microphone RP-8135N) LINE; sensitivity 63 mV/560 KΩ DC IN; 9 V
Output:	LINE; output level 0.46 V load impedance 50 KΩ over EXT SP; 8 Ω HEADPHONES; 8 Ω REMOTE; for start and stop at hand
REC/PB. connection:	5P DIN type; IN; 63 mV/22 KΩ OUT; 0.43 V/3.6 KΩ
Speakers:	WOOFER; 16 cm PM dynamic speaker TWEETER; 3 cm PM dynamic speaker
Radio frequency range:	FM; 87.5 ~ 108 MHz MW; 525 ~ 1605 kHz LW; 145 ~ 285 kHz SW; 5.9 ~ 18 MHz
Dimensions:	51.4 cm(W) × 28.9 cm(H) × 16.3 cm(D)
Weight:	7.3 kg (without batteries)

Specifications are subject to change without notice.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS



① Memory ON/OFF lever
② Tape counter and reset button
③ Speaker (L-Woofer)
④ Cassette lid assembly
⑤ Speaker (L-Tweeter)
⑥ Level meter
⑦ Built-in microphone (L)
⑧ Dial light button
⑨ Accessory holder
⑩ Record volume (L)
⑪ Record volume (R)
⑫ Timer stand-by lever
⑬ Input selector/mixing switch
⑭ Eject button
⑮ Stop button
⑯ Tape selector
⑰ Fast forward/cue button
⑱ Recording mode selector
⑲ Rewind/review button
⑳ Playback button
㉑ Mode selector
㉒ Record button
㉓ Function selector
㉔ Pause button
㉕ FM auto frequency control switch
㉖ Bass control
㉗ Rod antenna
㉘ Treble control
㉙ Balance control
㉚ Volume control
㉛ Stereo eye
㉜ Dial indicator
㉝ Built-in microphone (R)
㉞ Speaker (R-Tweeter)
㉟ Speaker (R-Woofer)
㊱ FM external antenna
㊲ Battery cover
㊳ Voltage selector
㊴ Tuning knob
㊵ Beat proof switch
㊶ Band select switch
㊷ Microphone jack (L)
㊸ Microphone jack (R)
㊹ Remote-control jack
㊺ Line in jack (L)
㊻ Line in jack (R)
㊼ Recording/playback DIN jack
㊽ Line out jack (L)
㊾ Line out jack (R)
㊿ External speaker jack (L)
(51) External speaker jack (R)
(52) Headphone jack
(53) Car adaptor connection jack
(54) AC power connection jack
※(55) AC power switch button (for United Kingdom only)

Fig. 1

DISASSEMBLY INSTRUCTIONS

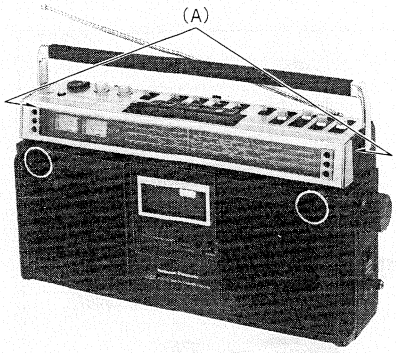


Fig. 2

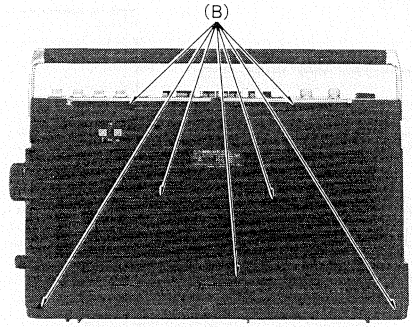


Fig. 3

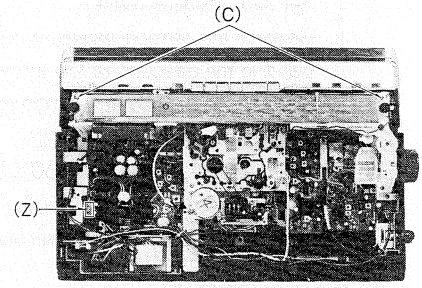


Fig. 4

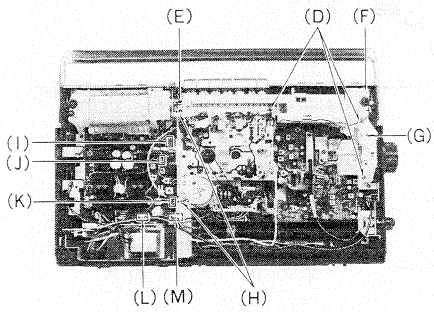


Fig. 5

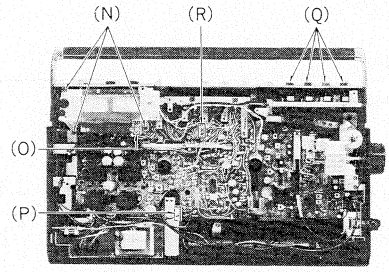


Fig. 6

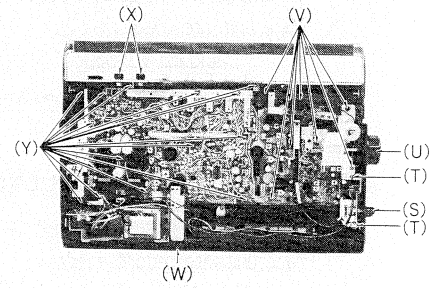


Fig. 7

Procedure	To remove ——.	Remove ——.	Pcs.	Shown in fig. ——.
1	Front panel	(A), (B), ※1	(2), (7)	(2), (3)
2	Dial scale	(C)	(2)	(4)
3	Dial chassis (B) assembly	(D), (E), (F), (G)	(3), (1), (1), (1)	(5)
4	Mechanism	(H), ※2	(2)	(5)
5	Dial chassis (A) assembly	(N), ※3	(3)	(6)
6	Tone control circuit board	(Q), ※4	(4)	(6)
7	Switch angle	(S), (T)	(1), (2)	(7)
8	Radio circuit board	(V)	(8)	(7)
9	Mechanism angle	(W)	(1)	(7)
10	Main circuit board	(X), (Y)	(2), (15)	(7)

※1; Remove speaker connector (Z) shown in fig. 4.
※2; Remove head connector (I) (L-CH), (J) (R-CH), (K) (erase), and motor connector (L), and switch connector (M).
※3; Remove meter connector (O) and meter lamp connector (P).
※4; Remove connector (R).

ADJUSTMENTS

A. PRESSURE OF PRESSURE ROLLER

1. Set into playback mode.
2. Connect the tension gauge to the pressure roller lever and pull it in the direction of the arrow as shown in fig. 9.
3. Measure the tension at the moment when the pressure roller moves away from the capstan.
   Standard tension: 350±50gr
4. If the tension is out of tolerance, bend the part (a) of pressure roller spring in either direction shown by the arrow.

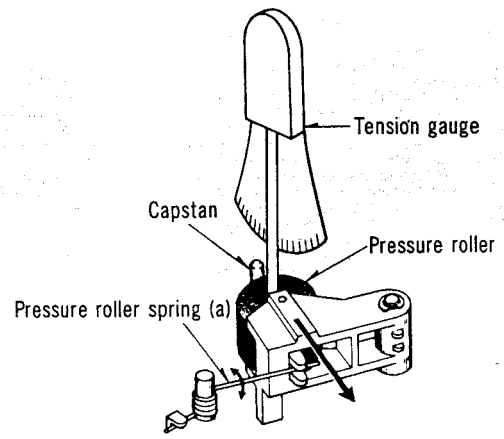


Fig. 9

B. BIAS CURRENT

1. Connect the VTVM to test point 101 (L-CH) or test point 201 (R-CH) and test point 102. (Location of test points is in the chart of wiring connection diagram)
2. Place unit into record mode.
   Standard voltage: 3.8±0.5mV
3. If the voltage is out of tolerance, adjust VR301 (L), VR302 (R) shown in fig. 12.

C. BIAS OSCILLATION FREQUENCY

1. Connect a oscilloscope with AF OSC as shown in fig. 10.
2. Place unit into record mode.
3. Adjust AF OSC to obtain the circular and stationary Lissajous' pattern on the oscilloscope. The bias oscillation frequency is indicated by the scale of AF OSC.
   Standard value: S4—ON ····48±0.5kHz
   S4—OFF ···2kHz ±30% higher than above
4. If it is out of tolerance, adjust L301 shown in fig. 12.

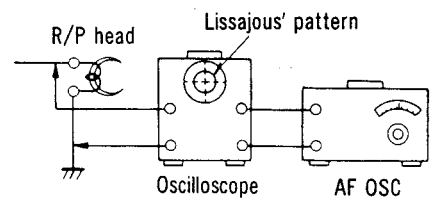


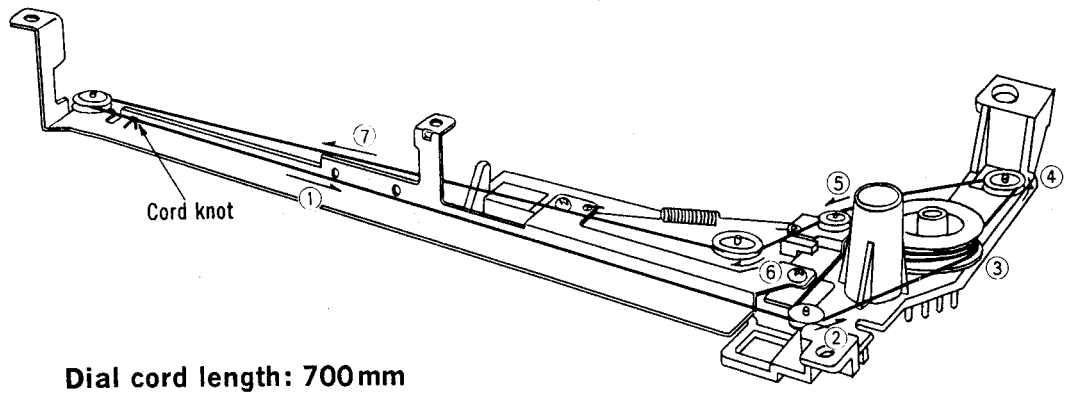
Fig. 10

D. OTHER SPECIFICATIONS FOR REFERENCE (NO ADJUSTABLE)

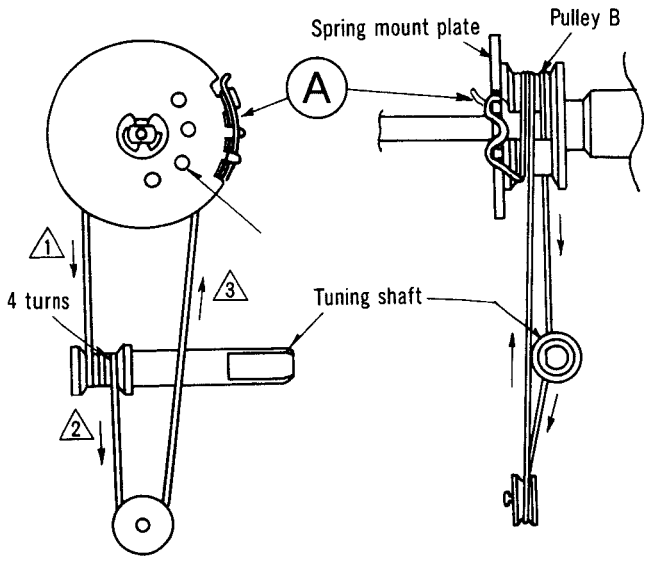
ITEM	SPECIFICATION	REMARKS
Takeup tension	50±10gr-cm	Use torque meter QZZSRKCT.
Wow and flutter	0.09% WRMS	Use cassette test tape QZZCWAT.
Tape speed fluctuation	±3%	〃
Standard recording input level	MIC: −72dB LINE IN: −24dB	To obtain 50μA ±2dB of current through recording head. f: 1kHz
Overall gain	More than 3.5V (Normal position)	Use DC 9V power supply. Record 1kHz tone with standard recording input level, and playing back the tape, read the output value across speaker.
Overall frequency response	1kHz: 0dB 125Hz: 5±4dB 6kHz: 2±5dB	Record the signal with 10dB lower level than standard recording input level.

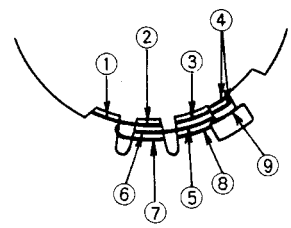
ALIGNMENT INSTRUCTIONS FOR RADIO

Dial cord length: 481mm



Dial cord length: 700mm



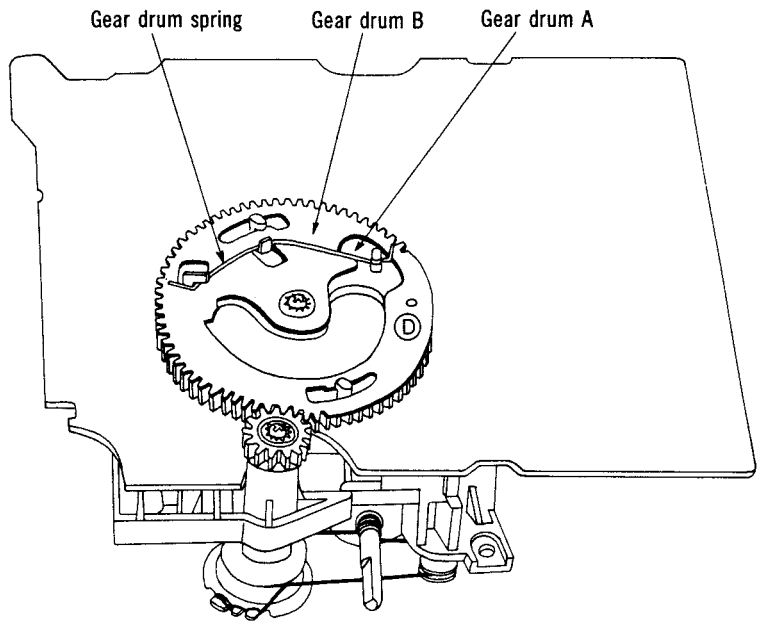


DETAILS OF PART A

1. Pull the cord out from ①, and thread it over ② and under ③.
2. Wind the cord twice at ④, and then thread it to ⑤, ⑥, ⑦ and ⑧.
3. Tie the cord at ⑨.

ATTACHMENT OF GEAR DRUM A

• With the assembly as shown in the figure, turn the variable capacitor shaft all the way to the left (counterclockwise), attach gear drum A so that it is turned 180° from the condition shown in the figure, and secure it by tightening with the screw.

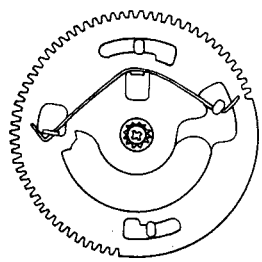


ATTACHMENT OF ASSEMBLED DIAL CHASSIS C

1. With the assembly as shown in the figure, turn the variable capacitor all the way to the left, and align the (D) hole of gear drums A and B.
2. Turn the tuning shaft of dial chassis C one or two turns to the right from the position of turned completely to the left.
3. Attach dial chassis C to the radio base plate, and secure with the screws.

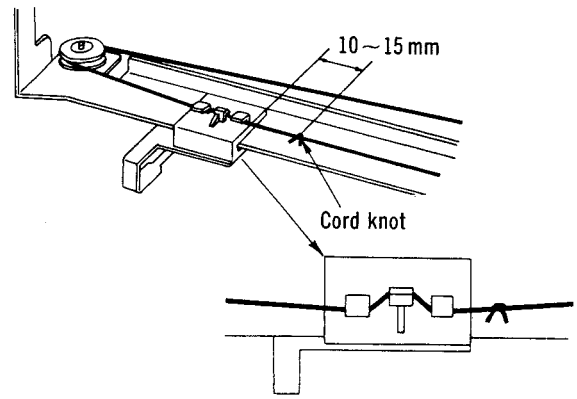
ATTACHMENT OF THE GEAR DRUM SPRING

• Hook it at 3 places, as shown in the figure.



ATTACHMENT OF THE INDICATION NEEDLE ASSEMBLY

1. The position in relation to the cord knot should be as shown in the figure.



MW, LW, SW IF & RF ALIGNMENTS

Adjustment parts location is shown in ffg. 12.
Test points location is shown on page 11.

Output of signal generator should be no higher than necessary to obtain an output reading.
Set volume control to maximum.
Tape/radio/sleep selector to radio.
Set bass and treble controls to center.
Set balance control to center.
Maintain line voltage at 220 volts.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
	IF ALIGNMENT	Band selector to MW				
1	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Approx. 455 kHz 470 kHz (for United Kingdom only) (400 Hz Mod.)	Point of non-interference (on/about 600 kHz).	Output meter across EXT SP jack (L).	T4 (1st IFT) T5 (2nd IFT)	Adjust for maximum output.
	MW RF ALIGNMENT	Band selector to MW				
2	Same as above.	550 kHz (400 Hz Mod.)	550 kHz	Same as above.	T12 (OSC coil) L6 (ANT coil)	Adjust for maximum output by sliding coil T12 along ferrite core.
3	Same as above.	1,500 kHz (400 Hz Mod.)	1,500 kHz	Same as above.	CT7 (OSC trimmer) CT2 (ANT trimmer)	Adjust for maximum output. Repeat steps (2) and (3).

	LW RF ALIGNMENT	Band selector to LW				
4	Fashion loop of several turns of wire and radiate signal into loop of receiver.	145 kHz (400 Hz Mod.)	145 kHz	Output meter across EXT SP jack (L).	T11 (OSC coil) L5 (ANT coil)	Adjust for maximum output by sliding coil T11 along ferrite core.
5	Same as above.	285 kHz (400 Hz Mod.)	285 kHz	Same as above.	CT6 (OSC trimmer) CT1 (ANT trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	SW RF ALIGNMENT	Band selector to SW				
6	Same as above.	6 MHz (400 Hz Mod.)	6 MHz	Same as above.	T13 (OSC coil) T10 (ANT coil)	Adjust for maximum output.
7	Same as above.	18 MHz (400 Hz Mod.)	18 MHz	Same as above.	CT8 (OSC trimmer) CT5 (ANT trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

Note: 1. Cement antenna bobbin with wax after completing alignment.
2. Make certain that speaker system or 8Ω load is connected to the EXT SP jack when aligning.

FM IF & DETECTOR ALIGNMENT

EQUIPMENT REQUIRED

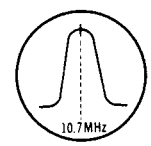
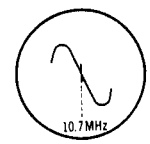
Signal generator that provides 10.7 MHz marker.
Sweep generator that provides 10.7 MHz with 400 kHz sweep width.

OSCILLOSCOPE

Set sweep selector of oscilloscope to "EXTERNAL SWEEP".
Apply 60 Hz sweep signal from sweep generator to horizontal input terminals of oscilloscope.

Set function selector to FM.
Set volume control to minimum.
Set bass control to center.
Set treble control to center.
Maintain line voltage at 220 volts.
Set AFC switch to OFF.
Set balance control to center.

Note: Before alignment of step 1 below, turn the core of T3 fully counter-clockwise.

	SWEEP GENERATOR COUPLING	SIGNAL GENERATOR COUPLING	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
1	High side thru. 0.001μF to point TP4. Common to chassis.	High side thru. 0.001μF to point TP4. Common to chassis.	Point of non-interference (on/about 90 MHz).	Connect vert. amp. of scope to TP6. Common to chassis.	T2 (FM 2nd IF) T1 (FM 1st IF)	Adjust for maximum amplitude and proper linearity. 
2	Same as above.	Same as above.	Same as above.	Same as above.	T3	To obtain proper linearity. 

FM RF ALIGNMENT

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
3	Connect to EXT FM antenna terminal through FM dummy antenna. Common to chassis.	90 MHz (400 Hz Mod.)	90 MHz	Output meter across EXT SP jack (L).	L4 (FM OSC coil) L3 (FM collector coil)	Adjust for maximum output.
4	Same as above.	106 MHz (400 Hz Mod.)	106 MHz	Same as above.	CT3 (FM OSC trimmer) CT4 (FM collector trimmer)	Adjust for maximum output. Repeat steps (3) and (4).

MULTIPLEX COIL & SEPARATION ALIGNMENT

* EQUIPMENTS REQUIRED

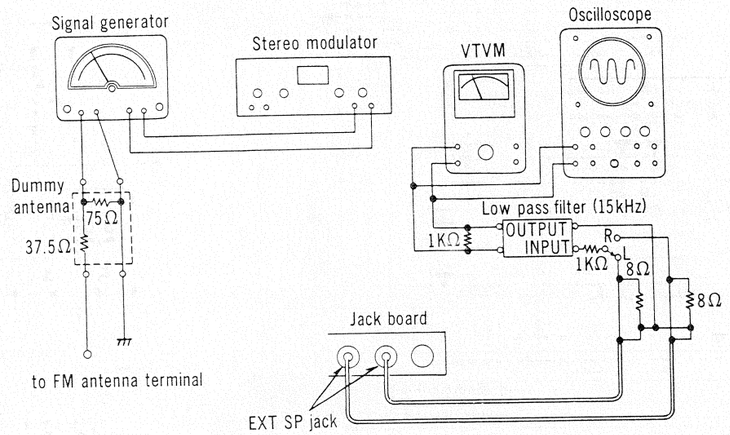
① Stereo modulator ····· Connect stereo modulator output to EXT Mod. terminal of signal generator.
② Signal generator ····· Modulation rate by 19 kHz pilot signal ····· 8 ~ 10%
Modulation rate by left signal ····· 30%
Output level ····· 60 dB
Frequency ····· Approx. 98 MHz
③ Oscilloscope
④ Dummy antenna
⑤ VTVM
⑥ Low pass filter (15 kHz)

* MEASURING CONDITION

Band selector to FM, dial setting to approx. 98 MHz, bass control to CENTER, treble control to CENTER, balance control to CENTER, volume control should be no higher than necessary to obtain output reading.

ALIGNMENT PROCEDURE

ITEM	SIGNAL SOURCE CONNECTION	EQUIPMENT CONNECTION	ADJUSTMENT	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB	TP8	Yellow core of T7	* Set stereo (L + R) modulation to zero. * Measure pilot signal only, and adjust for maximum (more than 1 V).
Adjustment of separation.	98 MHz, 60 dB Modulation by L signal. (Refer to fig. 11)	Connect VTVM and 8Ω resistor to EXT SP jack. (Refer to fig. 11)	Black core of T7 VR2	* Adjust volume control so that L output becomes 0.63 V. * Slightly adjust black core of T7 so that L output becomes maximum. * Then change the modulation by R signal only, and adjust semi-fixed variable resistor VR2 so that L output becomes minimum. * Likewise modulate by L signal only, and adjust VR2 so that R output becomes minimum. * Repeat above procedure.
Measurement of stereo eye lighting level.	98 MHz	——	VR1	* Set input level at 25 dB. * Adjust semi-fixed variable resistor VR1 so that stereo eye turns OFF at 25 dB.



Equipment connection for separation alignment

Fig. 11

ADJUSTMENT PARTS LOCATION

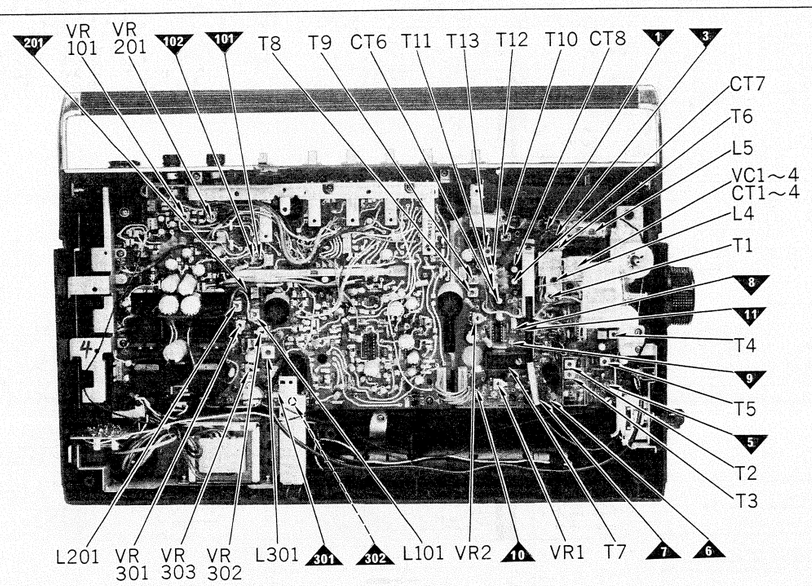


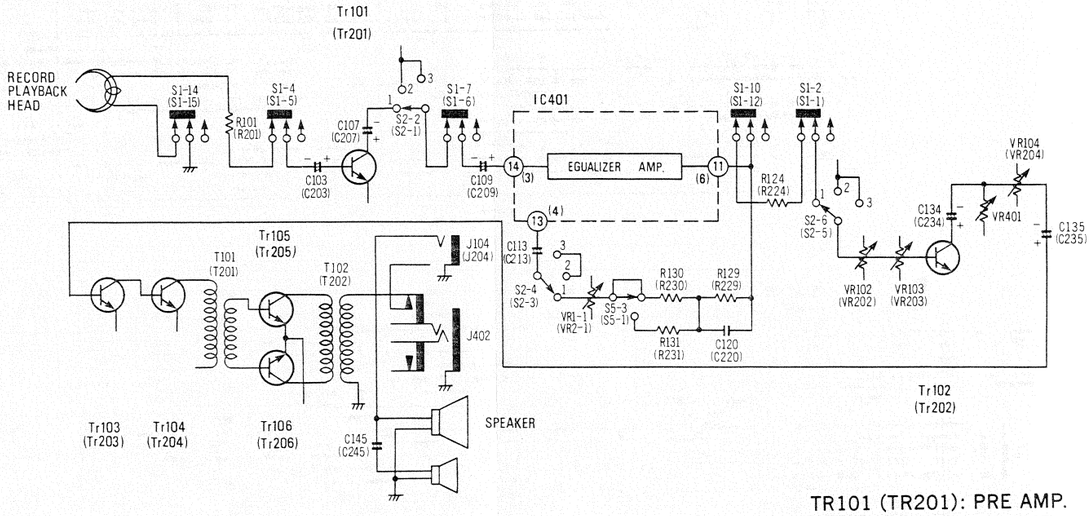
Fig. 12

BLOCK DIAGRAM OF ELECTRICAL CIRCUITS
DIAGRAMME SCHEMATIQUE DES CIRCUITS ELECTRIQUES

Note:

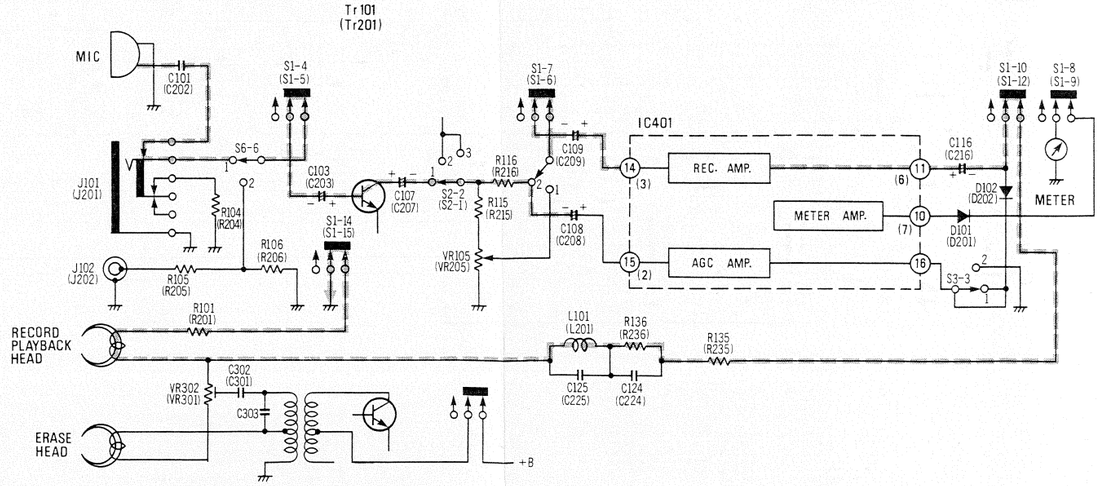
1. ( ) marked are the components used for right channel.
2. ····· line indicates recording signal coming through condenser microphone.

PLAYBACK CIRCUIT



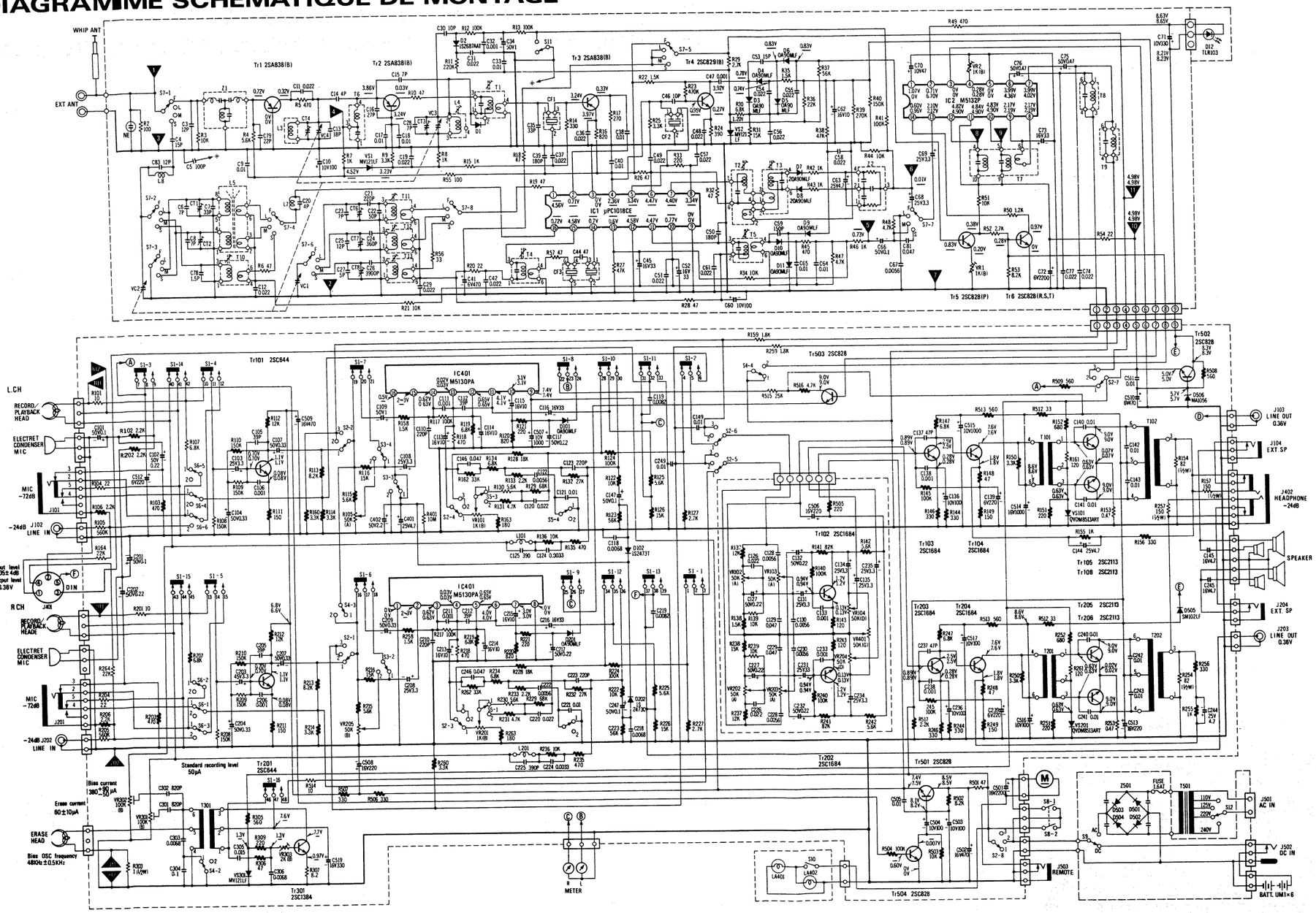
TR101 (TR201): PRE AMP.
TR102 (TR202): AF. AMP.
TR103 (TR203): AF. AMP.
TR104 (TR204): AF. AMP.
TR105 (TR205): Power AMP.
TR106 (TR206): Power AMP.

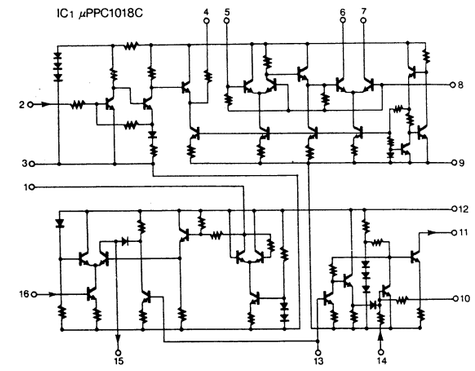
RECORDING CIRCUIT



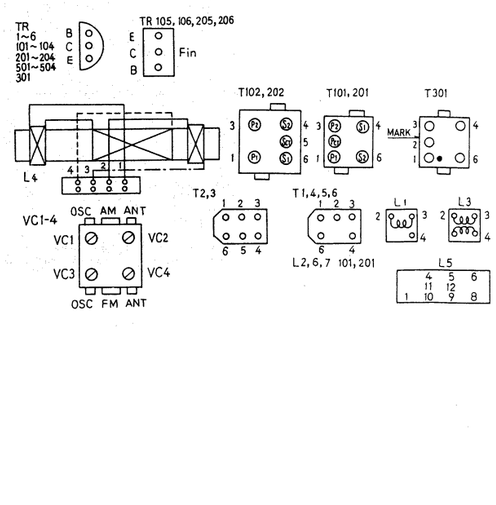
TR101 (TR201): PRE AMP.
TR301: OSC CIRCUIT

SCHEMATIC DIAGRAM MODEL RS-4350LJ
DIAGRAMME SCHEMATIQUE DE MONTAGE





TERMINATIONS (BOTTOM VIEW)

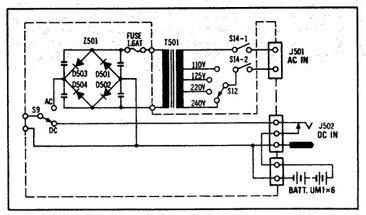


NOTE:

1. S1-1~S1-16 ..... Record/playback select switch (shown in playback position).
2. S2-1~S2-8 ..... Function switch (1···Tape, 2···Radio, 3···Sleep).
3. S3-2~S3-4 ..... Recording mode switch (1···AGC, 2···Manual).
4. S4-3, S4-4 ..... Mode select switch (1···Stereo, 2···Mono).
5. S5-1~S5-4 ..... Tape select switch (1···Normal, 2···CrO2).
6. S6-1~S6-6 ..... Input select/playback mixing switch (1···MIC/MIX ON, 2···LINE/MIX OFF).
7. S7-1~S7-8 ..... Band select switch (1···FM, 2···LW, 3···MW, 4···SW).
8. S8-1, S8-2 ..... Motor ON/OFF switch (shown in OFF position).
9. S9 ..... AC/DC select switch (shown in DC position).
10. S10 ..... Dial light switch (shown in OFF position).
11. S11 ..... AFC switch (shown in OFF position).
12. S12 ..... AC voltage select switch.
13. S13 ..... Beat proof switch.
14. S14-1, S14-2 ..... AC power switch (for United Kingdom only).
15. VR102, 202 ..... Bass control.
16. VR103, 203 ..... Treble control.
17. VR104, 204 ..... Volume control.
18. VR105, 205 ..... Record level control.
19. VR401 ..... Balance control.
20. Resistor values are in ohms (Ω), 1/4 watt unless specified otherwise.
    K=1,000Ω.
21. Capacitor values are in microfarads (μF) unless specified otherwise.
    P=Pico-farads.
22. The mark (▼) shows test point. e.g. ▽=test point 1.
23. All voltage values shown in circuitry are under no signal conditions with volume control at minimum position.
    For measurement, use VTVM.
24. ▨ indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

REMARQUES:

1. S1-1~S1-16 ..... Sélecteur enregistrement/lecture (montré ici en position lecture).
2. S2-1~S2-8 ..... Sélecteur de fonctions (montré ici en position tape).
3. S3-2~S3-4 ..... Commutateur de mode d'enregistrement (1···AGC(contrôle automatique de gain), 2···manuel).
4. S4-3, S4-4 ..... Sélecteur de modes (montré ici en position mono).
5. S5-1~S5-4 ..... Sélecteur de compensations (montré ici en position normale).
6. S6-1~S6-6 ..... Commutateur d'entrée/mixage à la lecture (1···MIC/MIX marche, 2···LINE/MIX arrêt).
7. S7-1~S7-8 ..... Sélecteur de bandes.
8. S8-1, S8-2 ..... Commutateur du moteur (montré ici en position hors circuit).
9. S9 ..... Sélecteur c.a./c.c. (montré ici en position c.c.).
10. S10 ..... Commutateur d'éclairage du cadran (montré ici en position d'arrêt).
11. S11 ..... Commutateur CAF (montré ici en position d'arrêt).
12. S12 ..... Sélecteur de tension c.a.
13. S13 ..... Commutateur anti-battement.
14. S14 ..... Interrupteur.
15. VR102, 202 ..... Commande des basses.
16. VR103, 203 ..... Commande des aiguës.
17. VR104, 204 ..... Commande de volume.
18. VR105, 205 ..... Commande de niveau d'enregistrement.
19. VR401 ..... Commande d'équilibrage.
20. Sauf indication contraire, les valeurs des résistances sont exprimées en ohms (Ω), 1/4 de watt.
    K=1,000Ω.
    Les résistances indiquées en caractères gras sont de type imprimé.
21. Sauf indication contraire, les valeurs des condensateurs sont exprimées en microfarads (μF).
    pF=Picofarads.
22. Le signe ▼ indique un point de vérification; ainsi ▼ signifie le point de vérification 1.
23. Toutes les mesures doivent être prises sans signal avec la commande de volume à sa position minimale et au moyen d'un voltmètre électronique.
    Les valeurs supérieures se mesurent à l'enregistrement et les valeurs inférieures à la lecture dans le circuit audio. Dans le circuit radio, les valeurs supérieures se mesurent en FM et les valeurs inférieures en AM.
24. ▨ indique que seules les pièces spécifiées par le fabricant peuvent être utilisées pour remplacement dans les circuits critiques.



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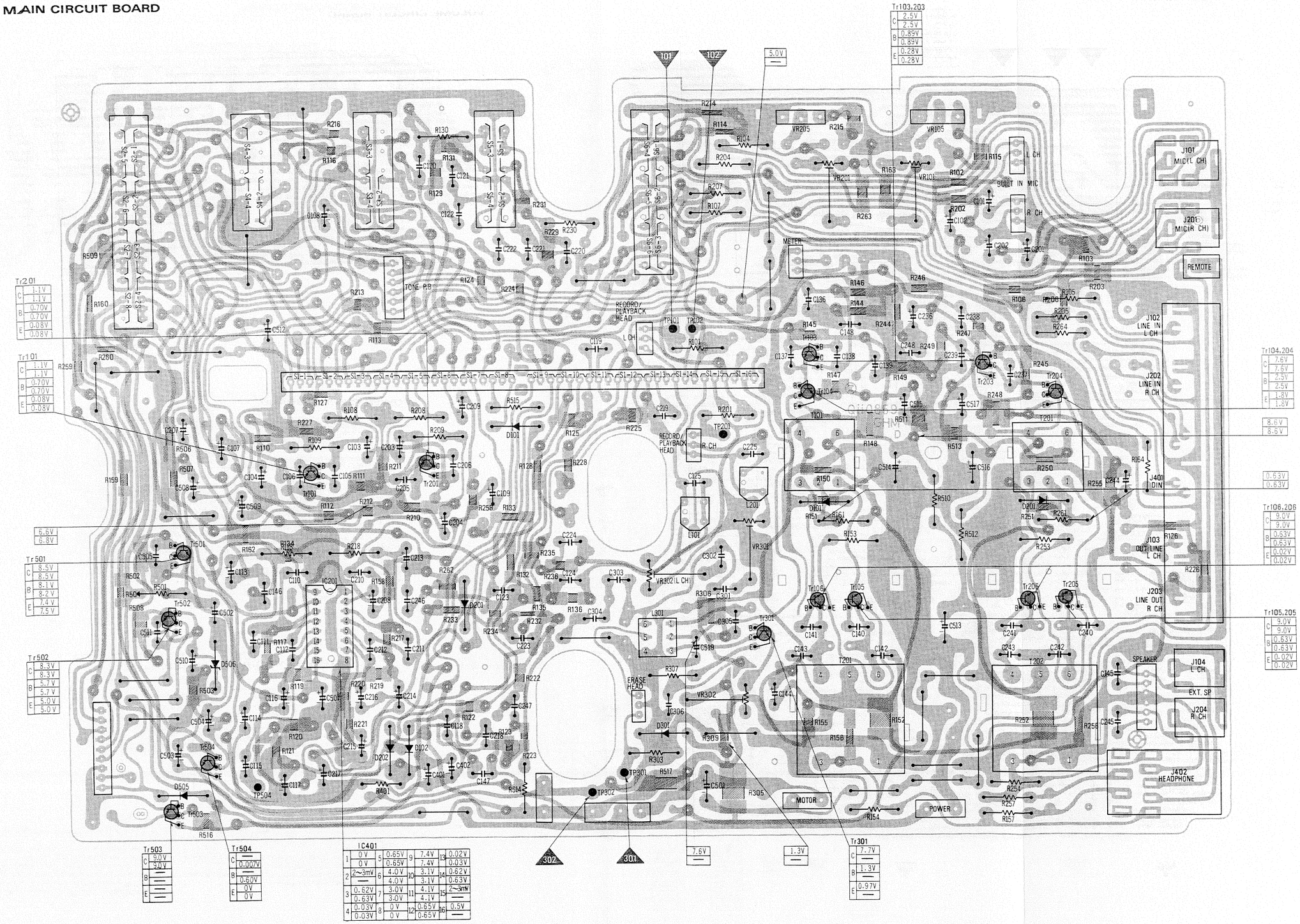
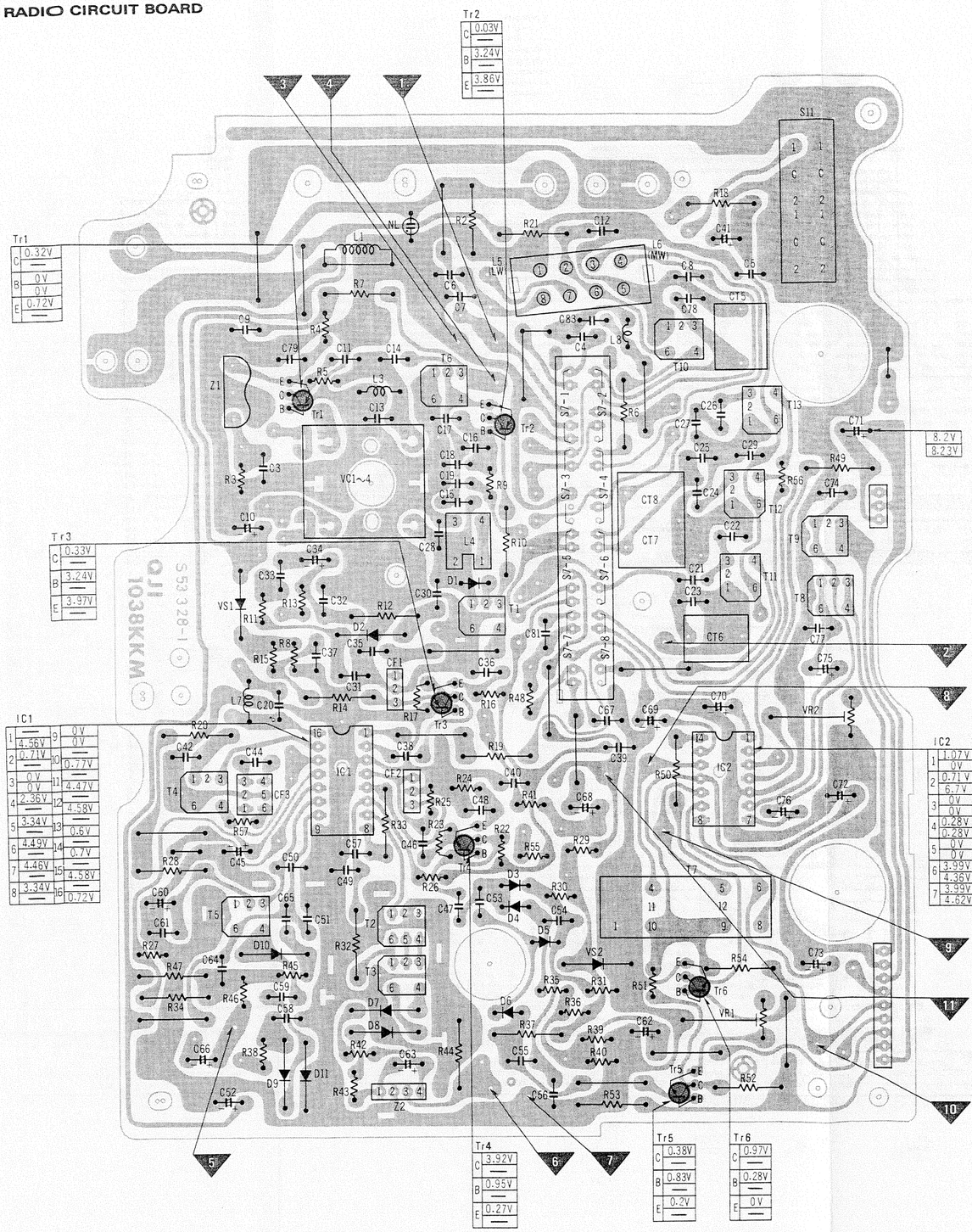
CIRCUIT BOARD
PLAQUE DE CABLAGE

MAIN CIRCUIT BOARD

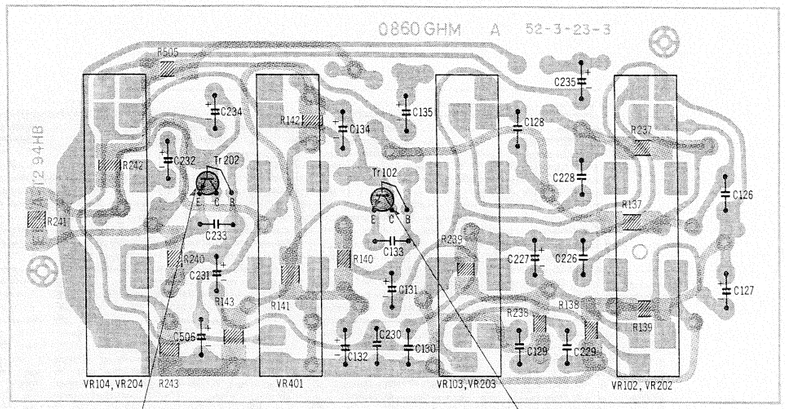


CIRCUIT BOARD
PLAQUE DE CABLAGE

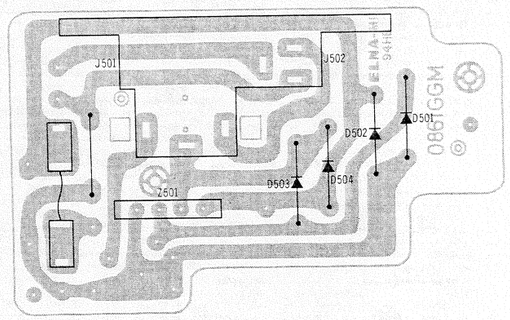
RADIO CIRCUIT BOARD



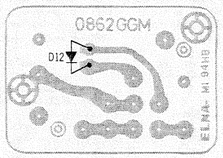
VOLUME CIRCUIT BOARD



POWER CIRCUIT BOARD



STEREO EYE CIRCUIT BOARD



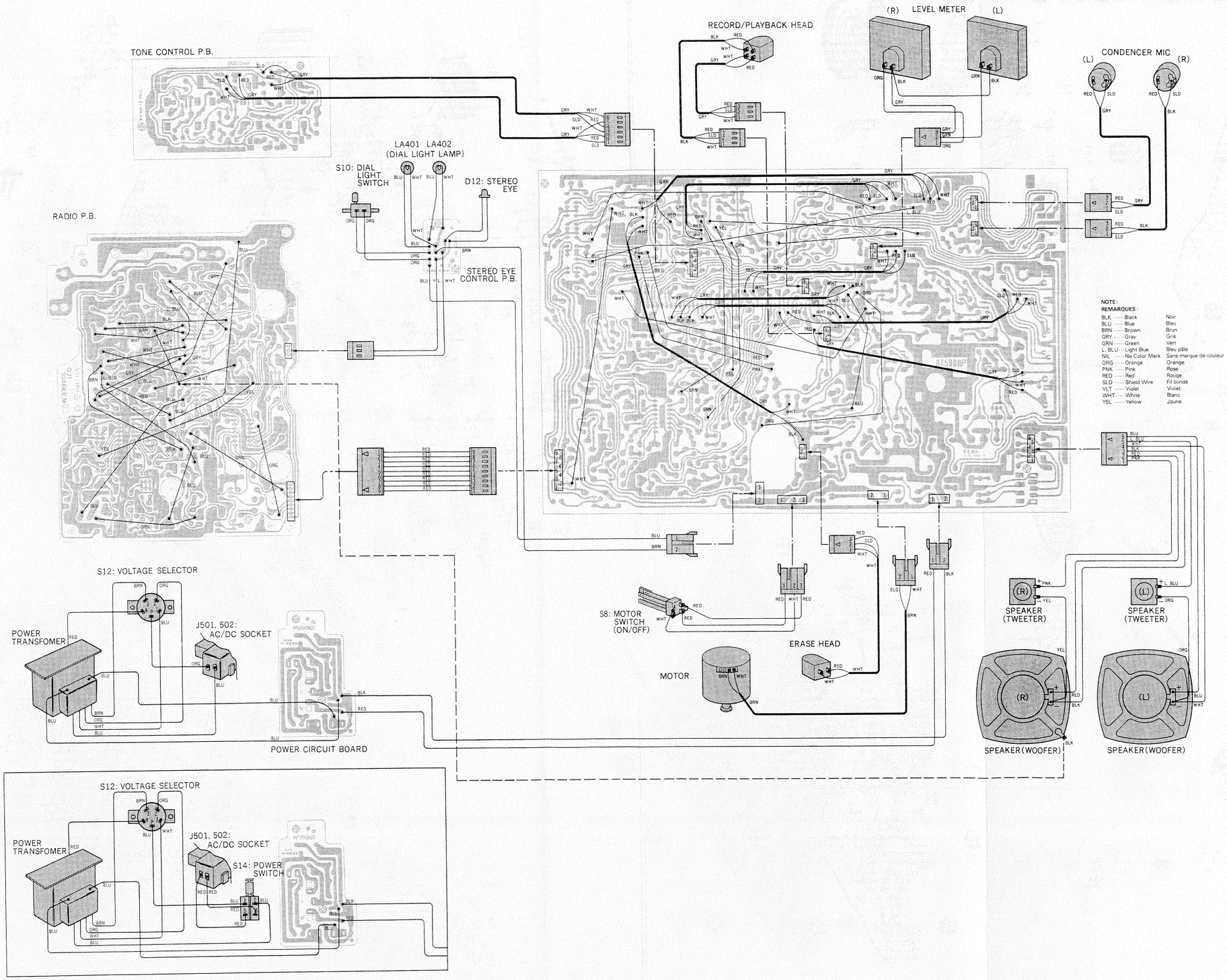
NOTE:

The circuit shown in red on the conductor is B circuit.
Values indicated in ▭ are DC voltage between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback (Audio circuit).
The upper values should be measured during FM and the lower values during AM (Radio circuit).

REMARQUES:

Le circuit montré en rouge sur ce diagramme indique le circuit d'alimentation B.
Les valeurs montrées dans ▭ sont des tensions continues entre le châssis et les pièces électriques indiquées.
Les valeurs supérieures se mesurent à l'enregistrement et les valeurs inférieures à la lecture (pour les circuits de la audio).
Toutes les tensions supérieures indiquent des mesures faites en mode FM et les tensions inférieures en mode AM (pour les circuits de la radio).

WIRING CONNECTION DIAGRAM MODEL RS-4350LJ
SCHEMA DE MONTAGE



NOTE:
REMARQUES:

BLK	Black	Noir
BLU	Blue	Bleu
BRN	Brown	Brun
GRY	Gray	Gris
GRN	Green	Vert
L. BLU	Light Blue	Bleu pâle
NIL	No Color Mark	Sans marque de couleur
ORG	Orange	Orange
PNK	Pink	Rose
RED	Red	Rouge
SLD	Shield Wire	Fil blindé
VLT	Violet	Violet
WHT	White	Blanc
YEL	Yellow	Jaune

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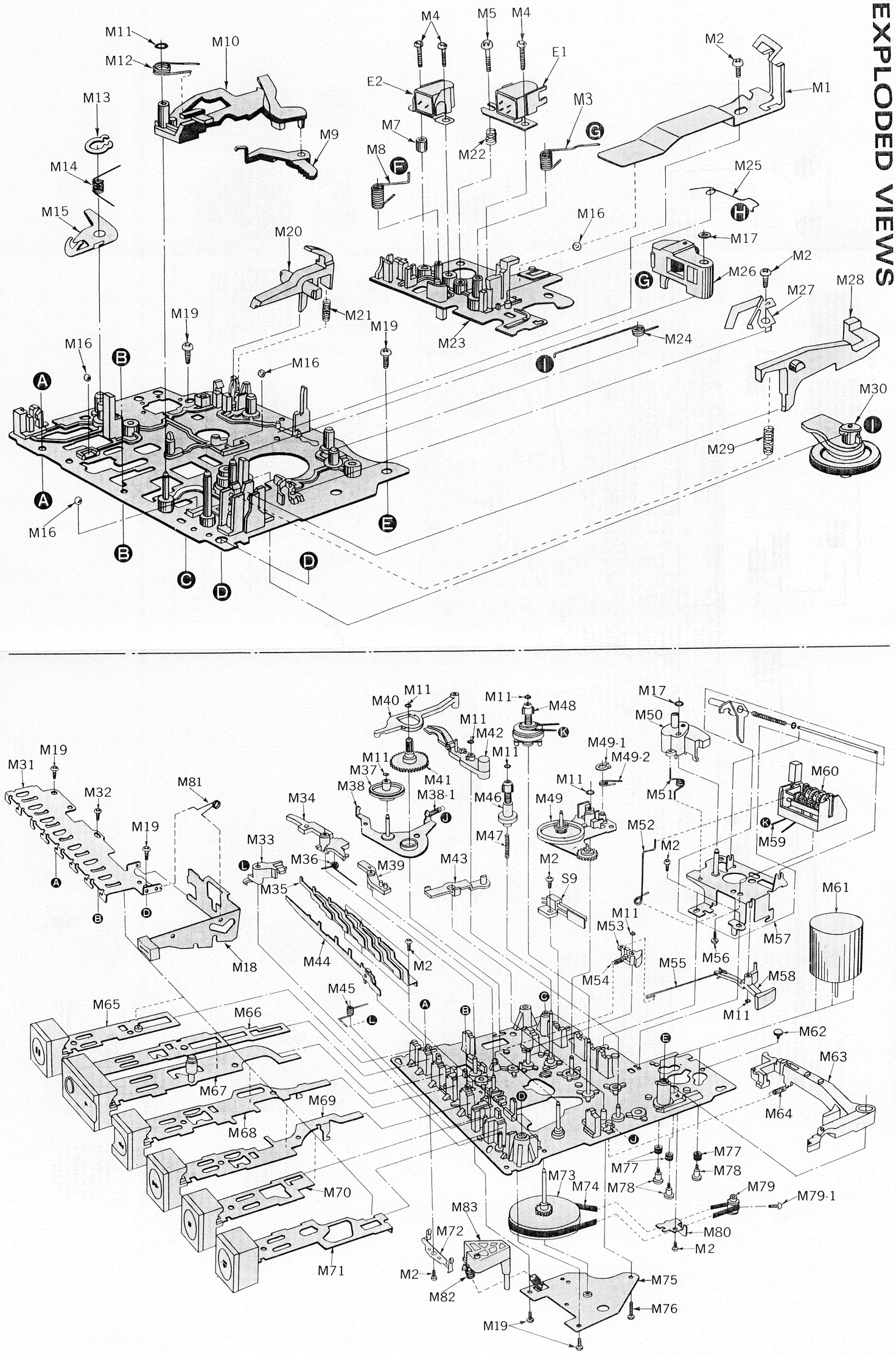
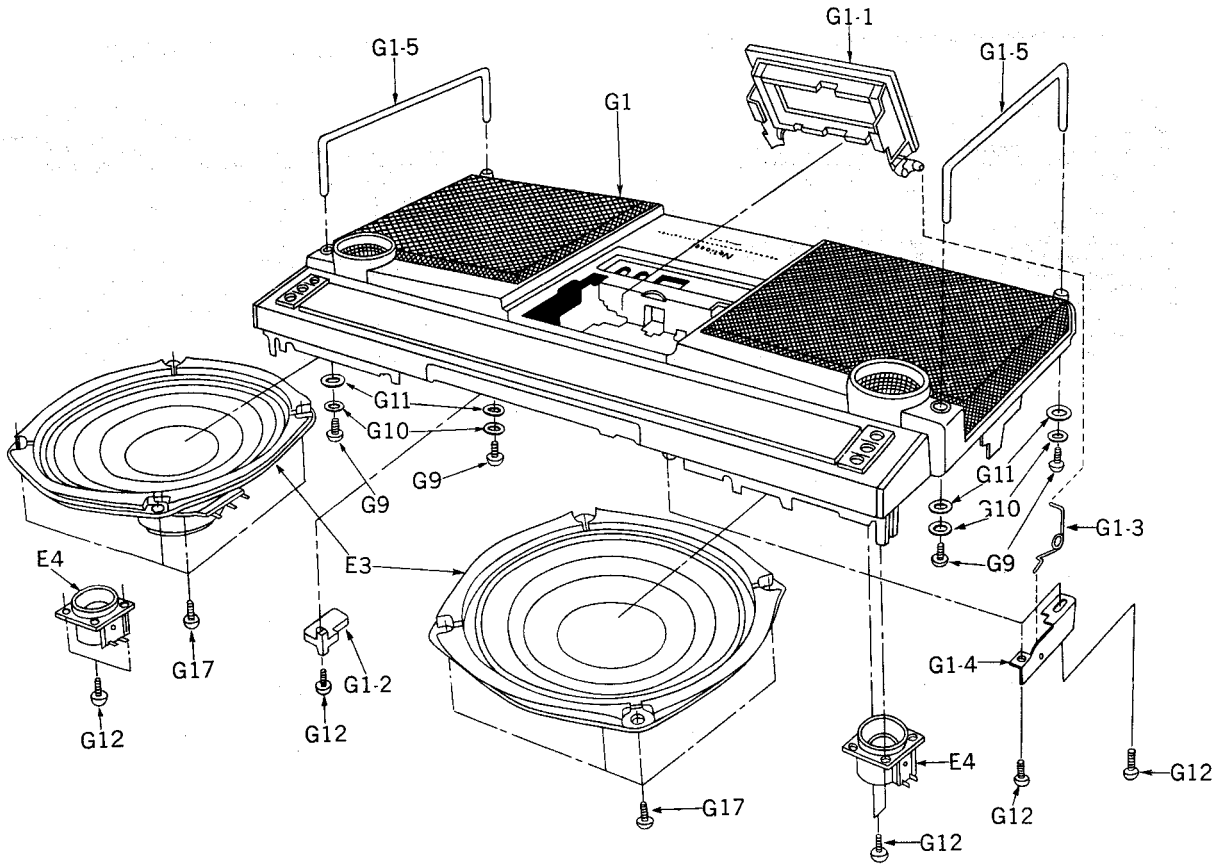
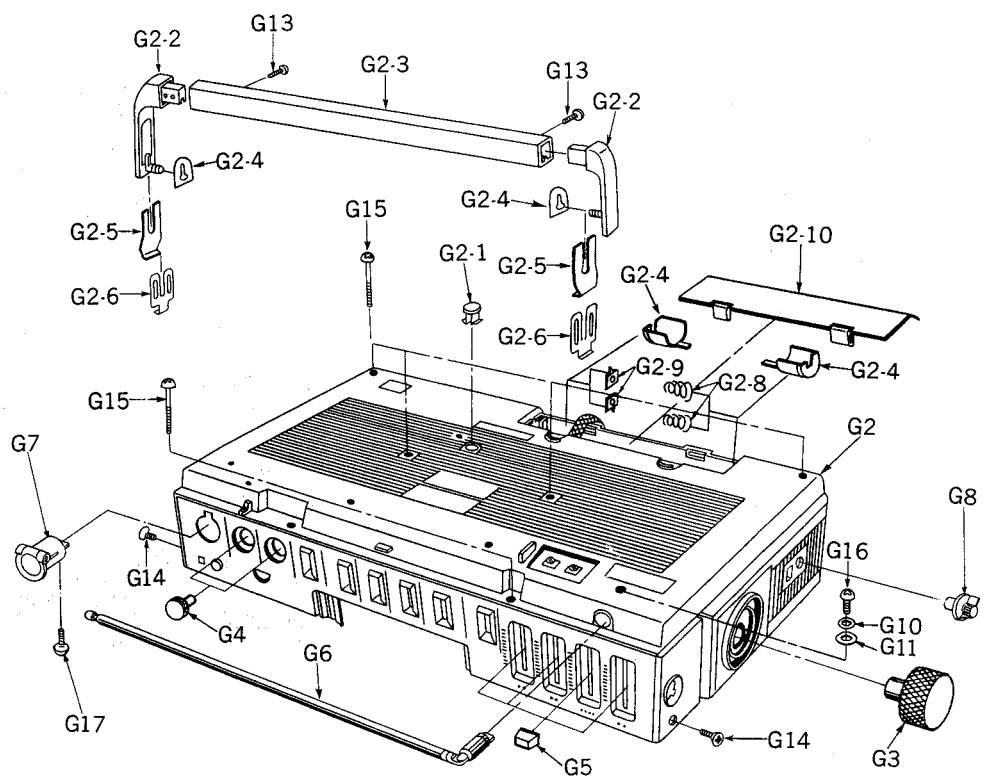
EXPLODED VIEWS

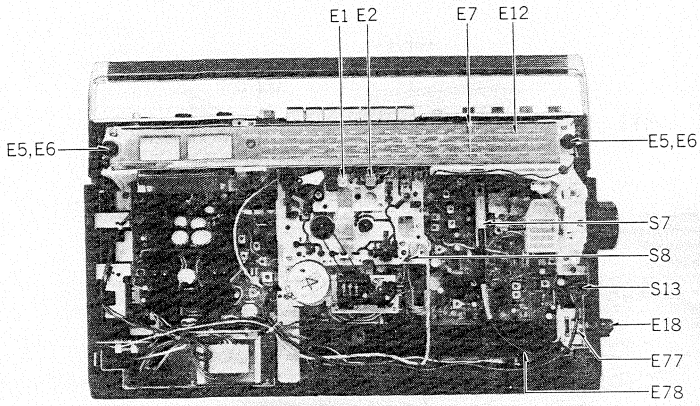


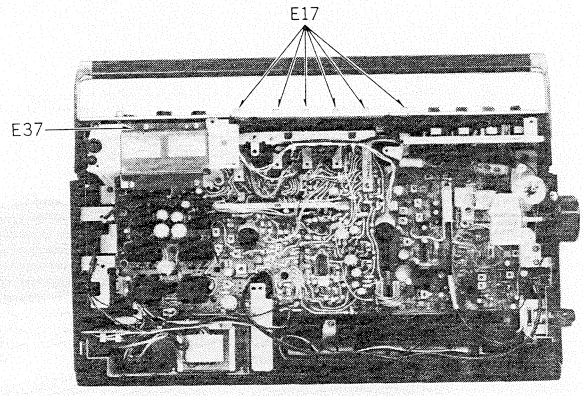
CABINET PARTS

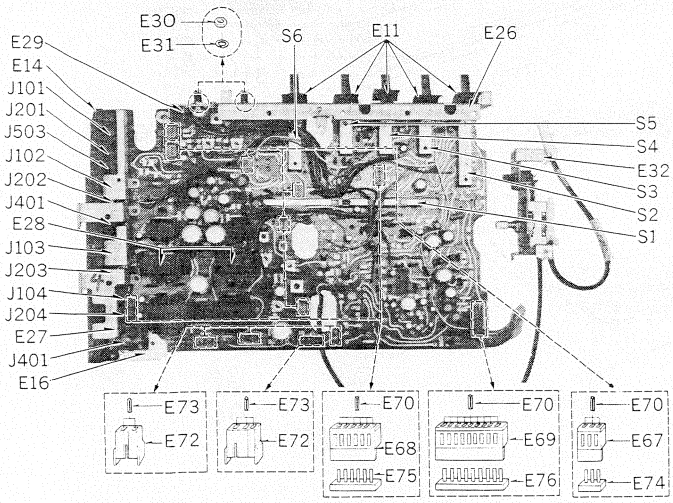


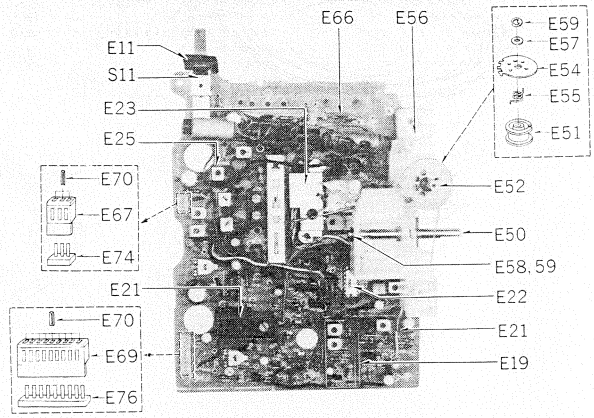


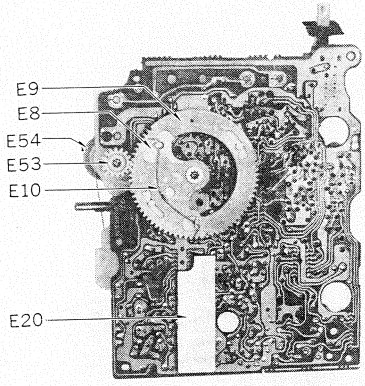
ELECTRICAL PARTS LOCATION

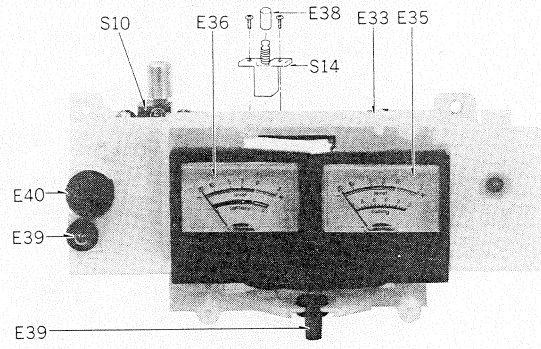


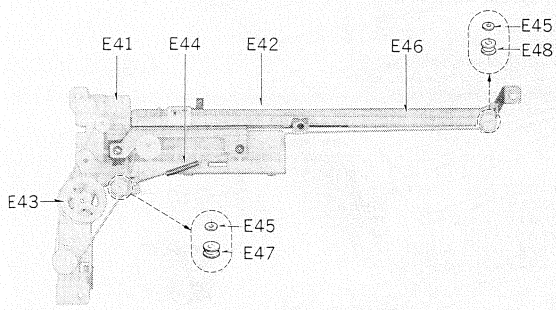


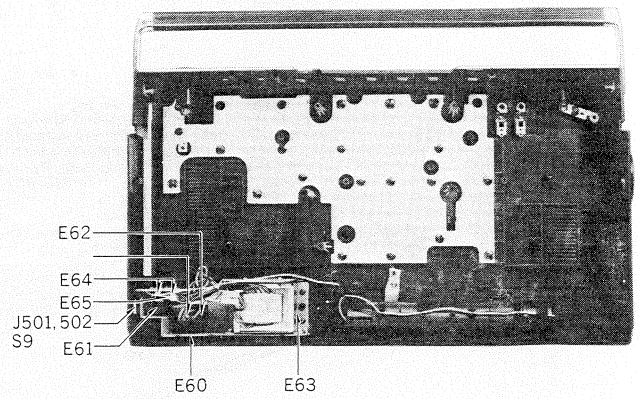












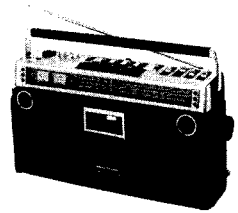
※ The locations of E3, 4 are shown in the chart of cabinet parts.

Printed in Japan.

REPLACEMENT PARTS LIST

MODEL RS-4350LJ (National Panasonic)

NOTE: S indicated that only parts specified by the manufacturer be used for safety.



RS-4350LJ

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
			MECHANICAL PARTS		
M1		QBP1722	Retainer Spring for Base Plate	1	
M2		XTN26+5B	Tapping Screw ⊕2.6×5	10	
M3		QBN1488	Pressure Roller Spring	1	
M4		XSN2+10	Screw ⊕2×10	3	
M5		QHQ1226	Head Adjustment Screw	1	
M7		QMC0061	Erase Head Spacer	1	
M8		QBN1481	Pressure Roller Spring-1	1	
M9		QML3048	Operating Lever	1	
M10		QML3047	Protective Lever	1	
M11		QBW2008	Poly Washer	9	
M12		QBN1515	Connection Spring	1	
M13		XUB4FT	Stop Ring 4φ (C-Type)	1	
M14		QBN1480	Pause Lock Spring	1	
M15		QML2898	Pause Lock Lever	1	
M16		QDK1012	Steel Ball	4	
M17		QBW2046	Poly Washer	2	
M18		QXL1133B	Change Lever Assembly	1	
M19		XTN3+10B	Tapping Screw ⊕3×10	6	
M20		QML3051	Erase Safety Lever	1	
M21		QBC1193	Safety Lever Spring	1	
M22		QBC1278	Head Adjustment Spring	1	
M23		QMK1612	Head Base Plate	1	
M24		QBN1513	Idler Spring	1	
M25		QBN1514	Timer Spring	1	
M26		QXL1057	Pressure Roller Assembly	1	
M27		QBP1723	Click Spring	1	
M28		QML3050	Eject Arm	1	
M29		QBC1228	Operation Rod Spring	1	
M30		QXI0098	Takeup Idler Assembly	1	
M31		QMG0042	Operation Guide	1	
M32		XTN26+8B	Tapping Screw ⊕2.6×8	1	
M33		QML3124	Lock Release Lever	1	
M34		QML3054	Pause Lever	1	
M35		QBP1664	Operation Rod Spring	1	
M36		QBN1530	Pause Spring	1	
M37		QXG1026	Auto-Stop Gear Assembly	1	
M38		QXL1037	Gear Lever Assembly	1	
M38-1		QBT1682	Lock Keeping Spring	1	
M39		QML3049	Cue Lever	1	
M40		QML3040	Cam Lever	1	
M41		QDG1096	Cam Gear	1	
M42		QXL1055	Auto-Stop Lever Assembly	1	
M43		QML3042	Auto-Stop Prevention Lever	1	
M44		QXR0275	Lock Rod Assembly	1	
M45		QBN1531	Lock Release Spring	1	
M46		QXD0068	Supply Reel Table	1	
M47		QBC1279	Back Tension Spring	1	
M48		QXD0067	Takeup Reel Table	1	
M49		QXG1027	Fast Forward Gear Assembly	1	
M49-1		XUB4FT	Stop Ring 4φ (C-Type)	1	
M49-2		QBN1517	Fast Forward Arm Spring	1	
M50	S	QXL1100	Memory ON/OFF Lever Assembly	1	
M51		QBN1542	Memory ON/OFF Lever Spring	1	
M52		QBN1543	Reset Support Spring	1	
M53		QMD0015	Brake Cam	1	
M54		QBT1833	Brake Cam Spring	1	
M55		QBS1110	Connection Wire	1	
M56		XSN3+5S	Screw ⊕3×5	1	
M57		QXA0617	Counter Angle Assembly	1	
M58		QML3183	Change Lever	1	
M59		QDB0169	Counter Belt	1	

RS-4350LJ

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
M60		QDC0090	Counter	1	
M61	S	MHI5E9RDPA	DC Motor	1	
M62		QBG1553	Cushion Rubber	1	
M63	S	QML3038	Switch Arm	1	
M64		QBT1489	Auto-Stop Spring	1	
M65		QXR0314	Pause Rod Assembly	1	
M66		QXR0318	Record Rod Assembly	1	
M67		QXR0313	Playback Rod Assembly	1	
M68		QXR0312	Rewind Rod Assembly	1	
M69		QXR0311	Fast Forward Rod Assembly	1	
M70		QXR0310	Stop Rod Assembly	1	
M71		QXR0309	Eject Rod Assembly	1	
M72		QBP1662	Lock Rod Spring	1	
M73		QXF0123	Flywheel	1	
M74		QDB0219	Flywheel Belt	1	
M75		QXH0239	Flywheel Retainer	1	
M76		XTN3+15B	Tapping Screw ⊕3×15	1	
M77		QBG1539	Rubber Cushion for Motor	3	
M78		QHQ1223	Motor Holding Screw	3	
M79		QXP0513	Motor Pulley Assembly	1	
M79-1		XSN2+3	Screw ⊕2×3	1	
M80		QMA2676	Belt Guide	1	
M81		QBN1548	Change Lever Spring	1	
M82		QBT1753DM	Playback Spring	1	
M83		QML3200	Record/Playback Change Lever	1	
			RESISTORS		
R2		ERD25TJ104	Carbon Resistor 100KΩ 1/4W	1	
R3		ERD25TJ103	〃 10KΩ 1/4W	1	
R4		ERD25TJ562	〃 5.6KΩ 1/4W	1	
R5		ERD25TJ471	〃 470Ω 1/4W	1	
R6		ERD25TJ221	〃 220Ω 1/4W	1	
R7, 8		ERD25TJ102	〃 1KΩ 1/4W	2	
R9		ERD25TJ332	〃 3.3KΩ 1/4W	1	
R10		ERD25TJ470	〃 47Ω 1/4W	1	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
R11		ERD25TJ224	Carbon Resistor 220KΩ 1/4W	1	
R12, 13		ERD25TJ104	〃 100KΩ 1/4W	2	
R14		ERD25TJ331	〃 330Ω 1/4W	1	
R15		ERD25TJ102	〃 1KΩ 1/4W	1	
R16		ERD25TJ821	〃 820Ω 1/4W	1	
R17		ERD25TJ271	〃 270Ω 1/4W	1	
R18, 19		ERD25TJ470	〃 47Ω 1/4W	2	
R20		ERD25TJ220	〃 22Ω 1/4W	1	
R21		ERD25TJ103	〃 10KΩ 1/4W	1	
R22		ERD25TJ152	〃 1.5KΩ 1/4W	1	
R23		ERD25TJ474	〃 470KΩ 1/4W	1	
R24		ERD25TJ391	〃 390Ω 1/4W	1	
R25		ERD25TJ332	〃 3.3KΩ 1/4W	1	
R26		ERD25TJ470	〃 47Ω 1/4W	1	
R27		ERD25TJ473	〃 47KΩ 1/4W	1	
R28		ERD25TJ470	〃 47Ω 1/4W	1	
R29		ERD25TJ272	〃 2.7KΩ 1/4W	1	
R30		ERD25TJ682	〃 6.8KΩ 1/4W	1	
R31		ERD25TJ153	〃 15KΩ 1/4W	1	
R32		ERD25TJ470	〃 47Ω 1/4W	1	
R33		ERD25TJ221	〃 220Ω 1/4W	1	
R34		ERD25TJ103	〃 10KΩ 1/4W	1	
R35		ERD25TJ152	〃 1.5KΩ 1/4W	1	
R36		ERD25TJ223	〃 22KΩ 1/4W	1	
R37		ERD25TJ563	〃 56KΩ 1/4W	1	
R38		ERD25TJ473	〃 47KΩ 1/4W	1	
R39		ERD25TJ274	〃 270KΩ 1/4W	1	
R40		ERD25TJ154	〃 150KΩ 1/4W	1	
R41		ERD25TJ104	〃 100KΩ 1/4W	1	
R42, 43		ERD25TJ102	〃 1KΩ 1/4W	2	
R44		ERD25TJ103	〃 10KΩ 1/4W	1	
R45		ERD25TJ471	〃 470Ω 1/4W	1	
R46		ERD25TJ102	〃 1KΩ 1/4W	1	
R47, 48		ERD25TJ472	〃 4.7KΩ 1/4W	2	
R49		ERD25TJ471	〃 470Ω 1/4W	1	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
R50		ERD25TJ122	Carbon Resistor 1.2KΩ 1/4W	1	
R51		ERD25TJ103	〃 10KΩ 1/4W	1	
R52		ERD25TJ272	〃 2.7KΩ 1/4W	1	
R53		ERD25TJ822	〃 8.2KΩ 1/4W	1	
R54		ERG12ANJ220	Metal-oxide Resistor 22Ω 1/2W	1	
R55		ERD25TJ391	Carbon Resistor 390Ω 1/4W	1	
R56		ERD25TJ330	〃 33Ω 1/4W	1	
R57		ERD25TJ470	〃 47Ω 1/4W	1	
R101		ERD25TJ100	〃 10Ω 1/4W	1	
R104		ERD25TJ220	〃 22Ω 1/4W	1	
R105		ERD25TJ564	〃 560KΩ 1/4W	1	
R107		ERD25TJ682	〃 6.8KΩ 1/4W	1	
R108, 109		ERD25TJ154	〃 150KΩ 1/4W	2	
R118		ERD25TJ471	〃 470Ω 1/4W	1	
R130		ERD25TJ562	〃 5.6KΩ 1/4W	1	
R153	S	ERX12ANJR47	Metal-oxide Resistor 0.47Ω 1/2W	1	
R154		ERG12ANJ820	〃 82Ω 1/2W	1	
R157		ERG12ANJ151	〃 150Ω 1/2W	1	
R161		ERD25TJ121	Carbon Resistor 120Ω 1/4W	1	
R164		ERD25TJ223	〃 22KΩ 1/4W	1	
R202		ERD25TJ100	〃 10Ω 1/4W	1	
R204		ERD25TJ220	〃 22Ω 1/4W	1	
R205		ERD25TJ564	〃 560Ω 1/4W	1	
R207		ERD25TJ682	〃 6.8Ω 1/4W	1	
R208, 209		ERD25TJ154	〃 150KΩ 1/4W	2	
R218		ERD25TJ471	〃 470Ω 1/4W	1	
R230		ERD25TJ562	〃 5.6KΩ 1/4W	1	
R253	S	ERX12ANJR47	Metal-oxide Resistor 0.47Ω 1/2W	1	
R254		ERG12ANJ820	〃 82Ω 1/2W	1	
R257		ERG12ANJ151	〃 150Ω 1/2W	1	
R261		ERD25TJ121	Carbon Resistor 22KΩ 1/4W	1	
R264		ERD25TJ223	〃 5.6KΩ 1/4W	1	
R303		ERX12ANJ1R0	Metal-oxide Resistor 1Ω 1/2W	1	
R307	S	ERX12ANJ8R2	〃 8.2Ω 1/2W	1	
R401		ERC14GK106	Solid Resistor 10MΩ 1/4W	1	

RS-4350LJ

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
R501	S	ERG12ANJ470	Metal-oxide Resistor 47Ω 1/2W	1	
R510, 512	S	ERG12ANJ330	〃 33Ω 1/2W	2	
R514	S	ERG12ANJ100	〃 10Ω 1/2W	1	
R515		ERD14TG2502	Carbon Resistor 25KΩ 1/4W	1	
			VARIABLE RESISTORS		
VR1, 2		EVLS3AA00B13	Semi-fixed Variable Resistor 1KΩ (B)	2	
VR101		EVLS3AA00B13	〃 1KΩ (B)	1	
VR102, 103, 202, 203					
		EVBV07D20A54	Variable Resistor 50KΩ (A)	2	
VR104, 204		EVBV1PD20A54	〃 50KΩ (A)	1	
VR105		EVH8HAF15A54	〃 50KΩ (A)	1	
VR201		EVLS3AA00B13	Semi-fixed Variable Resistor 1KΩ (B)	1	
VR205		EVH8HAF15A54	〃 50KΩ (A)	1	
VR301, 302		EVLS3AA00B15	〃 100KΩ (B)	2	
VR303		EVLS3AA00B53	〃 5KΩ (B)	1	
VR401		EVAV14D20G54	Variable Resistor 50KΩ (G)	1	
			CAPACITORS		
C3		ECCD1H120KC	Ceramic Capacitor 4pF	1	
C4		ECCD1H150KC	〃 15pF	1	
C5		ECCD1H101KD	〃 100pF	1	
C7		ECCD1H330KC	〃 33pF	1	
C8		ECCD1H020CD	〃 2pF	1	
C9		ECKD1H103MD	〃 0.022μF	1	
C10		ECEA1AS101	Electrolytic Capacitor 100μF	1	
C11, 12		ECKD1H223MD	Ceramic Capacitor 0.022μF	2	
C13		ECCD1H180KC	〃 18pF	1	
C14		ECCD1H040CD	〃 4pF	1	
C15		ECCD1H070DC	〃 7pF	1	
C16		ECCD1H270KC	〃 27pF	1	
C17, 18		ECKD1H103MD	〃 0.01μF	2	
C19		ECKD1H223ZF	〃 0.022μF	1	
C20		ECCD1H040CD	〃 4pF	1	
C21		ECQS1221JW	Styrol Capacitor 220pF	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C22	ECQS1151JW	Styrol Capacitor 150pF	1	
C23	ECCD1H070DC	Ceramic Capacitor 7pF	1	
C24	ECQS1361JW	Styrol Capacitor 360pF	1	
C25	ECCD1H120KC	Ceramic Capacitor 12pF	1	
C26	ECQS1392KW	Styrol Capacitor 3900pF	1	
C27	ECCD1H100KC	Ceramic Capacitor 10pF	1	
C28	ECCD1H070DC	〃 7pF	1	
C29	ECKD1H223MD	〃 0.022μF	1	
C30	ECCD1H100KC	〃 10pF	1	
C31	ECKD1H223MD	〃 0.022μF	1	
C32	ECKD1H102MD	〃 0.001μF	1	
C33	ECCD1H103MD	〃 0.01μF	1	
C34	ECEA50Z1	Electrolytic Capacitor 1μF	1	
C35	ECCD1H330KD	Ceramic Capacitor 33pF	1	
C36, 37	ECKD1H223MD	〃 0.022μF	2	
C38	ECKD1H103MD	〃 0.01μF	1	
C39	ECCD1H470KC	〃 47pF	1	
C40	ECKD1H103MD	〃 0.01μF	1	
C41	ECEA0JS471	Electrolytic Capacitor 470μF	1	
C42	ECKD1H223MD	Ceramic Capacitor 0.022μF	1	
C44	ECCD1H470KC	〃 47pF	1	
C45	ECEA1CS330	Electrolytic Capacitor 33μF	1	
C46	ECCD1H100KC	Ceramic Capacitor 10pF	1	
C47	ECKD1H102MD	〃 0.001μF	1	
C48	ECKD1H223MD	〃 0.022μF	1	
C49	ECQM05223KZ	Mylar Capacitor 0.022μF	1	
C50	ECCD1H181KD	Ceramic Capacitor 180pF	1	
C51	ECKD1H223MD	〃 0.022μF	1	
C52	ECEA1CS330	Electrolytic Capacitor 33μF	1	
C53	ECCD1H150KC	Ceramic Capacitor 15pF	1	
C54, 55, 56, 57, 58				
	ECKD1H223MD	〃 0.022μF	5	
C59	ECCD1H151KD	〃 150pF	1	
C60	ECEA1AS101	Electrolytic Capacitor 100μF	1	
C61	ECKD1H223MD	Ceramic Capacitor 0.022μF	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C62	ECEA1HS100	Electrolytic Capacitor 10μF	1	
C63	ECEA1JS4R7	〃 4.7μF	1	
C64, 65	ECKD1H103MD	Ceramic Capacitor 0.01μF	2	
C66	ECEA50ZR1	Electrolytic Capacitor 1μF	1	
C67	ECQM05562KZ	Mylar Capacitor 0.0056μF	1	
C68, 69	ECEA50VR3	Electrolytic Capacitor 3.3μF	2	
C70	ECEA16V47	〃 47μF	1	
C71	ECEA16V330	〃 330μF	1	
C72	ECEA0JS222	〃 2200μF	1	
C73	ECEA16V330	〃 330μF	1	
C74	ECQM05223KZ	Mylar Capacitor 0.022μF	1	
C75, 76	ECEA50ZR47	Electrolytic Capacitor 0.47μF	2	
C77	ECQM05223KZ	Mylar Capacitor 0.022μF	1	
C78	ECCD1H015CD	Ceramic Capacitpr 1.5pF	1	
C79	ECCD1H150KC	〃 15pF	1	
C81	ECQM05473KZ	Mylar Capacitor 0.022μF	1	
C83	ECCD1H120KC	Ceramic Capacitor 12pF	1	
C101	ECEA50ZR1	Electrolytic Capacitor 1μF	1	
C102	ECEA50ZR22	〃 0.22μF	1	
C103	ECEA50Z3R3	〃 3.3μF	1	
C104	ECEA50ZR33	〃 0.33μF	1	
C105	ECCD1H390KC	Ceramic Capacitor 39pF	1	
C106	ECKD1H102MD	〃 0.001μF	1	
C107	ECEA50ZR33	Electrolytic Capacitor 0.33μF	1	
C108	ECEA50Z3R3	〃 3.3μF	1	
C109	ECEA50Z1	〃 1μF	1	
C110	ECCD1H221KD	Ceramic Capacitor 220pF	1	
C111	ECKD1H102MD	〃 0.001μF	1	
C112	ECCD1H390KC	〃 39pF	1	
C113, 114, 115				
	ECEA1HS100	Electrolytic Capacitor 10μF	3	
C116	ECEA1CS330	〃 33μF	1	
C117	ECEA50ZR22	〃 0.22μF	1	
C118	ECQM05682KZ	Mylar Capacitor 0.0068μF	1	
C119	ECQM05562KZ	〃 0.0056μF	1	

Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
C120	ECQM05223KZ	Mylar Capacitor	0.022μF	1	
C121	ECQM05103KZ	〃	0.01μF	1	
C122	ECQM05562KZ	〃	0.0056μF	1	
C123	ECCD1H221KD	Ceramic Capacitor	220pF	1	
C124	ECQM05332KZ	Mylar Capacitor	0.0033μF	1	
C125	ECKD1H821MD	Ceramic Capacitor	820pF	1	
C126	ECQM05223MZ	Mylar Capacitor	0.022μF	1	
C127	ECEA50ZR22	Electrolytic Capacitor	0.22μF	1	
C128	ECQM05562MZ	Mylar Capacitor	0.0056μF	1	
C129	ECQM05473MZ	〃	0.047μF	1	
C130	ECQM05102MZ	〃	0.001μF	1	
C131	ECEA50V3R3	Electrolytic Capacitor	3.3μF	1	
C132	ECEA50ZR22	〃	0.22μF	1	
C133	ECKD1H102MD	Ceramic Capacitor	0.001μF	1	
C134, 135	ECEA50V3R3	Electrolytic Capacitor	3.3μF	2	
C136	ECEA1AS101	〃	100μF	1	
C137	ECCD1H390KC	Ceramic Capacitor	39pF	1	
C138	ECKD1H102MD	〃	0.001μF	1	
C139	ECEA1AS221	Electrolytic Capacitor	220μF	1	
C140, 141, 142, 143					
	ECKD1H103MD	Ceramic Capacitor	0.01μF	4	
C144	ECEA1JS4R7	Electrolytic Capacitor	4.7μF	1	
C145	ECEA16N4R7	〃	4.7μF	1	
C146	ECQM05473KZ	Mylar Capacitor	0.047μF	1	
C147	ECQM05104KZ	〃	0.1μF	1	
C148	ECQM05473KZ	〃	0.047μF	1	
C201	ECEA50ZR1	Electrolytic Capacitor	1μF	1	
C202	ECEA50ZR22	〃	0.22μF	1	
C203	ECEA50Z3R3	〃	3.3μF	1	
C204	ECEA50ZR33	〃	0.33μF	1	
C205	ECCD1H390KC	Ceramic Capacitor	39pF	1	
C206	ECKD1H102MD	〃	0.001μF	1	
C207	ECEA50ZR33	Electrolytic Capacitor	0.33μF	1	
C208	ECEA50Z3R3	〃	3.3μF	1	
C209	ECEA50Z1	〃	1μF	1	

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Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
C210	ECCD1H221KD	Ceramic Capacitor	220pF	1	
C211	ECKD1H102MD	〃	0.001μF	1	
C212	ECCD1H390KC	〃	39pF	1	
C213, 214, 215					
	ECEA1HS100	Electrolytic Capacitor	10μF	3	
C216	ECEA1CS330	〃	33μF	1	
C217	ECEA50ZR22	〃	0.22μF	1	
C218	ECQM05682KZ	Mylar Capacitor	0.0068μF	1	
C219	ECQM05562KZ	〃	0.0056μF	1	
C220	ECQM05223KZ	〃	0.022μF	1	
C221	ECQM05103KZ	〃	0.01μF	1	
C222	ECQM05562KZ	〃	0.0056μF	1	
C223	ECCD1H221KD	Ceramic Capacitor	220pF	1	
C224	ECQM05332KZ	Mylar Capacitor	0.0033μF	1	
C225	ECKD1H821MD	Ceramic Capacitor	820pF	1	
C226	ECQM05223MZ	Mylar Capacitor	0.022μF	1	
C227	ECEA50ZR22	Electrolytic Capacitor	0.22μF	1	
C228	ECQM05562MZ	Mylar Capacitor	0.0056μF	1	
C229	ECQM05473MZ	〃	0.047μF	1	
C230	ECQM05102MZ	〃	0.001μF	1	
C231	ECEA50V3R3	Electrolytic Capacitor	3.3μF	1	
C232	ECEA50ZR22	〃	0.22μF	1	
C233	ECKD1H102MD	Ceramic Capacitor	0.001μF	1	
C234, 235	ECEA50V3R3	Electrolytic Capacitor	3.3μF	2	
C236	ECEA1AS101	〃	100μF	1	
C237	ECCD1H390KC	Ceramic Capacitor	39pF	1	
C238	ECKD1H102MD	〃	0.001μF	1	
C239	ECEA1AS221	Electrolytic Capacitor	220μF	1	
C240, 241, 242, 243					
	ECKD1H103MD	Ceramic Capacitor	0.01μF	4	
C244	ECEA1JS4R7	Electrolytic Capacitor	4.7μF	1	
C245	ECEA16N4R7	〃	4.7μF	1	
C246	ECQM05473KZ	Mylar Capacitor	0.047μF	1	
C247	ECQM05104KZ	〃	0.1μF	1	
C248	ECQM05473KZ	〃	0.047μF	1	

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Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
C301, 302		ECKD1H821MD	Ceramic Capacitor 820pF	2	
C303		ECQS1332KW	Styrol Capacitor 3300pF	1	
C304		ECQM05682KZ	Mylar Capacitor 0.0068μF	1	
C305		ECQM05153KZ	〃 0.015μF	1	
C306		ECQM05682KZ	〃 0.0068μF	1	
C307		ECQM05123KZ	〃 0.012μF	1	
C401		ECEA25Z4R7	Electrolytic Capacitor 4.7μF	1	
C402		ECEA50Z2R2	〃 2.2μF	1	
C501	S	ECEA1CS222	〃 2200μF	1	
C502		ECEA1CS471	〃 470μF	1	
C503, 504		ECEA1AS101	〃 100μF	2	
C505		ECKD1H103MD	Ceramic Capacitor 0.01μF	1	
C506		ECEA1CS221	Electrolytic Capacitor 220μF	1	
C507		ECEA1AS102	〃 1000μF	1	
C508		ECEA1CS221	〃 220μF	1	
C509		ECEA1CS471	〃 470μF	1	
C510		ECEA0JS471	〃 470μF	1	
C511		ECKD1H103MD	Ceramic Capacitor 0.01μF	1	
C512		ECEA1AS221	Electrolytic Capacitor 220μF	1	
C513		ECEA1CS222	〃 2200μF	1	
C514		ECEA1CS102	〃 1000μF	1	
C515		ECEA1AS102	〃 1000μF	1	
C516		ECEA1CS102	〃 1000μF	1	
C517		ECEA1AS102	〃 1000μF	1	
C519		ECEA1CS331	〃 330μF	1	
			VARIABLE CAPACITORS		
VC1, 2, 3, 4, CT1, 2, 3, 4					
		QCVCB42C513T	Variable Capacitor	1	
CT6		QCV1020W	Trimmer Capacitor	1	
CT7, 8		QCV2120	〃	1	
			COMBINATION PARTS		
CF1, 2		QVF107MA5W	Ceramic Filter (FM 10.7MHz)	2	
CF3		QCRZZ455A7W	Ceramic Filter (AM 455kHz)	1	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
CF3		QCRZZ470A7W	Ceramic Filter (AM 470kHz)	1	for United Kingdom only
Z1		RXABPF10801H	Combination Part	1	
Z2		EXA5DL04C	〃	1	
Z501		B4BC0802	〃	1	
			TRANSISTORS		
Tr1, 2, 3		2SC828	Transistor	3	
Tr4		2SC829	〃	1	
Tr5, 6	S	2SC828	〃	2	
Tr101		2SC644	〃	1	
Tr102, 103, 104				3	
		2SC1684	〃	2	
Tr105, 106	S	2SC2113	〃	2	
Tr201		2SC644	〃	1	
Tr202, 203, 204					
		2SC1684	〃	3	
Tr205, 206	S	2SC2113	〃	2	
Tr301		2SC1383	〃	1	
Tr501, 502, 503, 504					
	S	2SC828	〃	4	
			INTEGRATED CIRCUITS		
IC1	S	RVIUPC1018CE	Integrated Circuit	1	
IC2	S	M5132P	〃	1	
IC401	S	M5130PA	〃	1	
			DIODES		
D1		OA90Z	Diode	1	
D2		1S2687AAT	Diode (Varicap)	1	
D3, 4, 5, 6		OA90Z	Diode	4	
D7, 8		20A90	〃	2	
D9, 10, 11		OA90Z	〃	3	
D12		TLR103	LED	1	
D101, 201		OA90Z	Diode	2	
D102, 202		1S2473T	〃	2	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
D501, 502, 503, 504, 505					
	S	SM102LF	Rectifier	5	
D506		MA1056	Zener Diode	1	
			VARISTORS		
VS1, 2		MV121LF	Varistor	2	
VS101, 201		QVDM8513ART	〃	2	
VS301		MV121LF	〃	1	
			TRANSFORMERS		
T1		RLI4M101	FM IFT (1st)	1	
T2		RLI4M504	FM IFT (Det.)	1	
T3		RLI4M506	〃	1	
T4		QLI2M102M	AM IFT	1	
T5		RLI2M402	〃	1	
T6		RLI4M103	FM Trap Coil	1	
T7		QLM1Z1KW	MPX Coil	1	
T8, 9		QLM1M2	19kHz Trap Coil	2	
T10		QLA3M8	SW Antenna Coil	1	
T11		QLO1M4M	LW Oscillator Transformer	1	
T12		QLO2M14M	MW Oscillator Transformer	1	
T13		QLO3M31M	SW Oscillator Transformer	1	
T101, 201		QLT3F10	Input Transformer	2	
T102, 202		QLT2H22	Output Transformer	2	
T501	S	QLPZ10BL	Power Transformer	1	
			COILS		
L1		QLQY75S7W	FM Trap Coil	1	
L3		RLD4Y44W	FM Tuning Coil	1	
L4		QLD4M003	FM Oscillator Coil	1	
L5, 6		QLF6D60	MW/LW Antenna Coil	1	
L7		QLQY75S7W	SW Trap Coil	1	
L8		QLQY30S6W	FM/SW Trap Coil	1	
L101, 201		QLQM1531	Bias Trap Coil	2	
L301		QLB0180	Bias Oscillator Coil	1	

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Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
			SWITCHES		
S1		QSSG203	Slide Switch (Record/Playback)	1	
S2		QST8305T	Lever Switch (Function Selector)	1	
S3, 4, 5		QST4214T	Lever Switch (Record Mode, Stereo/Mono, Normal/CrO_2)	3	
S6		QST6201T	Lever Switch (Input Selector)	1	
S7		QSS8402	Band Selector Switch	1	
S8	S	QSB0186	Leaf Switch (Motor ON/OFF)	1	
S9		Refer to J502	AC/DC Selector Switch	1	
S10		QSW1110H	Push Switch (Dial Light Switch)	1	
S11	S	QST4214T	AFC Switch	1	
S12		QSR1407T	Rotary Switch (Voltage Selector)	1	
S13		QSS1048T	Slide Switch (Beat Proof Switch)	1	
S14		QSW2101	AC Power Switch	1	for United Kingdom only
			JACKS		
J101, 201		QJA0153	M3 Jack with Switch (MIC)	1	
J102, 103, 202, 203, 401					
		QEJ5010HM	Jack Unit (LINE IN/OUT, DIN)	1	
J104, 204		QJA0154	M3 Jack (EXT SP)	1	
J402		QJA0253H	TMS Jack (HEADPHONE)	1	
J501, 502	S	QJS0329	AC/DC Socket with S9	1	
J503		QJA0156	M2 Jack (REMOTE)	1	
			ELECTRICAL PARTS		
E1		QWY4113Z	Record/Playback Head	1	
E2		QWY2122ZA	Erase Head	1	
E3		EAS16P905W	Speaker (Woofer)	2	
E4		EAS3KH01SB	Speaker (Tweeter)	2	
E5		WM034Z114	Built-in Microphone	2	
E6		QBG1526B	Microphone Cover	2	
E7		QYL0008	Dial Indicator	1	
E8		QDG1117	Gear Drum-A	1	
E9		QDG1118A	Gear Drum-B	1	
E10		QBN1549	Gear Drum Spring	1	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
E11		QBH0148	Switch Shelter	6	
E12		QGD0202	Dial Scale	1	
E13		QGK2872	Back Board	1	
E14		QGJ1324	Jack Board	1	
E15		XAMQ40P200	Pilot Lamp	2	
E16		QMA3268	Headphone Angle	1	
E17		QGT1420	Lever Switch Knob	1	
E18		QYT0310K	Select Knob	1	
E19		QTS1354A	Shield Plate-A for FM	1	
E20		QTS1417	Shield Plate-B for FM	1	
E21		QTS1414	Shield Plate for AM	1	
E22		RMC171YB	Shield Plate for IC	1	
E23		RMC413ZA	Shield Plate for SW	1	
E24		QTS1440	Shield Plate for FM Multi.	1	
E25		QTS1443	Shield Plate for FM	1	
E26		QMA3179A	Lever Angle	1	
E27		QMA3177	Jack Board Supporter	1	
E28		QTH1125A	Heat Sink	2	
E29		QMA2705B	Volume Angle	1	
E30		QNQ1004	Nut for Volume 8ϕ	3	
E31		QWQ2002	Washer for Volume 8ϕ	3	
E32		QMA3487	Switch Angle	1	
E33		QMK1769	Dial Chassis-A	1	
E34		QMA3533	Lamp Angle	1	
E35		QSL1087RNM	Level Meter-R	1	
E36		QSL1088RNM	Level Meter-L	1	
E37		QMA3250	Meter Angle	1	
E38		QXB0560	Power Switch Button Assembly	1	for United Kingdom only
E39		QBG1166	Rubber Bush	2	
E40		QBG1596	LED Cushion	1	
E41		QXK1964	Dial Chassis-B Assembly	1	
E42		QXA0717	Dial Indicator Angle Assembly	1	
E43		QDP1743A	Pulley-A	1	
E44		QBT1837M	Dial Rope Spring	1	
E45		QBJ2167A	Washer	2	

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Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
E46		RDZ05A	Dial Rope	1	
E47		QDP1497A	Roller-A	1	
E48		QDP1678	Roller-B	1	
E49		QXA0644	Tension Roller Angle Assembly	1	
E50		QMN8014A	Tuning Shaft	1	
E51		QDP1744	Pulley-B	1	
E52		QMN8015	Pulley Shaft	1	
E53		QDG1119	Drum Driving Gear	1	
E54		QMF1946	Pulley Spring Mount Plate	1	
E55		QBN1550	Pulley Spring	1	
E56		QXK2082	Dial Chassis-C Assembly	1	
E57		QBW2022	Poly Washer 6.2ϕ	2	
E58		QBW2020	Poly Washer 5.2ϕ	2	
E59		XUC4FT	Stop Ring 4ϕ	2	
E60		QMA3180A	Transformer Angle	1	
E61	S	QTW1135	AC/DC Socket Cover	1	
E62	S	RUV387ZB	Selector Switch Cover	1	
E63		QMA3484	Transformer Angle	1	
E64	S	QTF1054	Fuse Holder	2	
E65	S	XBA0010	Fuse	1	
E66	S	XAN3K	Neon Lamp	1	
E67		QJS1921TN	3P Housing	8	
E68		QJS1922TN	6P Housing	2	
E69		QJS1923TN	9P Housing	2	
E70		QJT1054	Contact	51	
E71		QJS0777	3P Housing	1	
E72		QJS0776	2P Housing	2	
E73		QJT1040	Contact	7	
E74		QJP1921TN	3P Post	8	
E75		QJP1922TN	6P Post	2	
E76		QJP1923TN	9P Post	2	
E77	S	QZE0021	Operation Unit (Band Selector)	1	
E78		QZE0020	Connection Wire Assembly	1	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
			CABINET PARTS		
G1		QYP0767	Front Panel Assembly	1	
G1-1		QYF0338	Cassette Lid Assembly	1	
G1-2		QKJ0113A	Cassette Lid Holder	1	
G1-3		QBN8003	Cassette Lid Spring	1	
G1-4		QMA2704A	Spring Angle	1	
G1-5		QGK2756	Protection Pole	2	
G2		QYM0501K	Main Case Assembly	1	
G2		QYM0502K	〃	1	for United Kingdom only
G2-1		QKJ0177A	Hole Cap	1	
G2-2		QKH1131A	Handle-C	2	
G2-3		QYH0078	Handle-B Assembly	1	
G2-4		QKJ0130A	Handle Spacer	2	
G2-5		QBP1684	Handle Retainer Spring	2	
G2-6		QBP1735	Handle Retainer	2	
G2-7		QKJ0193	Battery Spacer	2	
G2-8		QBN8009A	Battery Spring	2	
G2-9		QJB0042	Battery Terminal	2	
G2-10		QYD1015A	Battery Cover Assembly	1	
G2-11		QGS2557	Name Plate	1	
G3	S	QGT1368	Tuning Knob	1	
G4	S	QGT1345S	Volume Knob	2	
G5	S	QGT1382S	Slide Volume Knob	4	
G6		XEAQCR343CAY	Rod Antenna	1	
G7		QYQ0275A	Accessory Holder Assembly	1	
G8		QYT0310K	Select Knob	1	
G9		XSN3+10S	Screw ⊕3×10	4	
G10		XWA3B	Spring Washer 3φ	5	
G11		XWG3	Flat Washer 3φ	5	
G12		XTN3+10B	Tapping Screw ⊕3×10	7	
G13		XSS3+10S	Screw ⊕3×10	2	
G14		XTS3+10BFV	Screw ⊕3×10 (Black)	2	
G15		XTN35+50BFV	Tapping Screw ⊕3.5×50	7	
G16		XSN3+15S	Screw ⊕3×15	1	

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Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
G17		XTW3+10B	Tapping Screw ⊕3×10	9	
			ACCESSORIES		
A1		QFC1104	AC Power Cord	1	
A1		QFC1105	〃	1	for United Kingdom only
A2		WM2301N	Plug Adaptor	2	
A3		QQT2353	Instruction Book	1	
A3		QQT2354	〃	1	for United Kingdom only
A4		QFTC07L003NZ	Cassette Tape	1	
			PACKINGS		
P1		QPN3742	Inside Carton	1	
P2		QPA0328	Cushion-A	1	
P3		QPA0397	Cushion-B	1	
P4		QPA0398	Cushion-C	1	
P5		QPS0289A	Spacer	1	
P6		XZB50X65A02	Poly Bag	1	